Federation Proceedings

Volume 18 *September 1959* Number 3

FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY

FEDERATION BOARD, 1959–1960

R. F. PITTS, J. H. COMROE, JR., HALLOWELL DAVIS, *American Physiological Society*
H. G. WOOD, PHILIP HANDLER, SEVERO OCHOA, *American Society of Biological Chemists*
L. S. GOODMAN, ALFRED GILMAN, C. D. LEAKE, *American Society for Pharmacology and Experimental Therapeutics*
C. C. ERICKSON, JACOB FURTH, W. B. WARTMAN, *American Society for Experimental Pathology*
W. D. WOOLLEY, F. S. DAFT, W. J. DARBY, *American Institute of Nutrition*
W. C. BOYD, A. H. COONS, J. E. SMADEL, *American Association of Immunologists*
C. D. LEAKE, *Chairman,* Ohio State University, Columbus 10, Ohio
M. O. LEE, *Executive Officer,* 9650 Wisconsin Avenue, Washington 14, D. C.

COMMITTEES

Advisory Committee—C. D. Leake, Pharmacology, *Chairman;* C. C. Erickson, Pathology; F. S. Daft, Nutrition; J. E. Smadel, Immunology; R. F. Pitts, Physiology; Philip Handler, Biochemistry. *Ex officio:* J. T. Edsall and M. O. Lee.

Secretaries Committee—K. H. Beyer, Jr., Pharmacology, *Chairman;* J. F. A. McManus, Pathology; G. M. Briggs, Nutrition; Calderon Howe, Immunology; J. H. Comroe, Jr., Physiology; F. W. Putnam, Biochemistry.

Public Information Committee—E. A. Evans, Jr., *Chairman;* R. W. Engel, Alfred Gilman, R. B. Jennings, Simon Rodbard, E. L. Tatum, B. H. Waksman.

Exhibits Advisory Committee to the Federation—C. R. Roesch, Jr., *Chairman;* W. F. Butler, Kenneth Ericson, Thomas Lanahan, David Miller, Melvin Shepherd, Steven K. Herlitz; and Members of the Secretaries Committee.

REPRESENTATIVES TO ORGANIZATIONS

Council of the American Association for the Advancement of Science—K. K. Chen (1960), Orr Reynolds (1959), K. R. W. Unna (1962).

American Documentation Institute—M. O. Lee.

Scientific Manpower Commission—M. O. Lee (1962), C. D. Leake (1960).

Future Scientists of America Foundation—R. G. Daggs (1960).

FORMER EXECUTIVE COMMITTEES

Philadelphia, Dec. 28–31, 1913

S. J. Meltzer, *Chairman,* and A. J. Carlson, *Secretary,* Physiology; A. B. Macallum and P. A. Shaffer, Biochemistry; T. Sollmann and J. Auer, Pharmacology.

St. Louis, Dec. 27–30, 1914

G. Lusk, *Chairman,* and P. A. Shaffer, *Secretary,* Biochemistry; T. Sollmann and J. Auer, Pharmacology; R. M. Pearce and G. H. Whipple, Pathology; W. B. Cannon and A. J. Carlson, Physiology.

Boston, Dec. 26–29, 1915

Torald Sollmann, *Chairman,* and John Auer, *Secretary,* Pharmacology; Theobald Smith and Peyton Rous, Pathology; W. B. Cannon and C. W. Greene, Physiology; Walter Jones and P. A. Shaffer, Biochemistry.

New York, Dec. 27–30, 1916

Simon Flexner, *Chairman,* and Peyton Rous, *Secretary,* Pathology; W. B. Cannon and C. W. Greene, Physiology; Walter Jones and Stanley R. Benedict, Biochemistry; Reid Hunt and J. Auer, Pharmacology.

Minneapolis-Rochester, Dec. 27–29, 1917

Frederic S. Lee, *Chairman,* and Charles W. Greene, *Secretary,* Physiology; Carl L. Alsberg and Stanley R. Benedict, Biochemistry; Reid Hunt and L. G. Rowntree, Pharmacology; Ludvig Hektoen and Howard T. Karsner, Pathology.

Baltimore, April 24–26, 1918

Carl L. Alsberg, *Chairman,* and Stanley R. Benedict, *Secretary,* Biochemistry; Reid Hunt and E. D. Brown, Pharmacology; H. Gideon Wells and Howard T. Karsner, Pathology; Frederic S. Lee and Charles W. Greene, Physiology.

Cincinnati, Dec. 29–31, 1919

A. S. Loevenhart, *Chairman,* and E. D. Brown, *Secretary,* Pharmacology; W. G. MacCallum and Howard T. Karsner, Pathology; Warren P. Lombard and Charles W. Greene, Physiology; Stanley R. Benedict and Victor C. Myers, Biochemistry.

Chicago, Dec. 28–30, 1920

William H. Park, *Chairman,* and Howard T. Karsner, *Secretary,* Pathology; Warren P. Lombard and Charles W. Greene, Physiology; Stanley R. Benedict and Victor C. Myers, Biochemistry; A. S. Loevenhart and Edgar D. Brown, Pharmacology.

New Haven, Dec. 28–30, 1921

J. J. Macleod, *Chairman,* and Charles W. Greene, *Secretary,* Physiology; D. D. Van Slyke and Victor C. Myers, Biochemistry; C. W. Edmunds and Edgar D. Brown, Pharmacology; F. G. Novy and Wade H. Brown, Pathology.

Toronto, Dec. 27–29, 1922

D. D. Van Slyke, *Chairman,* and Victor C. Myers, *Secretary,* Biochemistry; C. W. Edmunds and Edgar D. Brown, Pharmacology; Howard T. Karsner and Wade H. Brown, Pathology; J. J. R. Macleod and Charles W. Greene, Physiology.

St. Louis, Dec. 27–29, 1923

C. W. Edmunds, *Chairman,* and Edgar D. Brown, *Secretary,* Pharmacology; E. L. Opie and Wade H. Brown, Pathology; A. J. Carlson and Charles W. Greene, Physiology; Philip A. Shaffer and Victor C. Myers, Biochemistry.

Washington, Dec. 29–31, 1924

Alfred S. Warthin, *Chairman,* and E. B. Krumbhaar, *Secretary,* Pathology; A. J. Carlson and Walter J. Meek, Physiology; P. A. Shaffer and D. Wright Wilson, Biochemistry; John Auer and E. D. Brown, Pharmacology.

Cleveland, Dec. 28–30, 1925

A. J. Carlson, *Chairman,* and Walter J. Meek, *Secretary,* Physiology; H. C. Sherman and D. Wright Wilson, Biochemistry; John Auer and E. D. Brown, Pharmacology; George H. Whipple and E. B. Krumbhaar, Pathology.

Rochester, N. Y., April 14–16, 1927

E. C. Kendall, *Chairman,* and F. C. Koch, *Secretary,* Biochemistry; John Auer and E. D. Brown, Pharmacology; W. H. Brown and E. B. Krumbhaar, Pathology; J. Erlanger and W. J. Meek, Physiology.

Ann Arbor, April 12–14, 1928

Carl Voegtlin, *Chairman,* and E. D. Brown, *Secretary,* Pharmacology; David Marine and Carl V. Weller, Pathology; Joseph Erlanger and Walter J. Meek, Physiology; E. V. McCollum and D. Wright Wilson, Biochemistry.

Boston, Aug. 19–24, 1929

(The XIIIth International Physiological Congress)

Edward B. Krumbhaar, *Chairman,* and Carl V. Weller, *Secretary,* Pathology; Joseph Erlanger and Walter J. Meek, Physiology; E. V. McCollum and D. Wright Wilson, Biochemistry; Carl Voegtlin and E. D. Brown, Pharmacology.

Chicago, March 26–29, 1930

Walter J. Meek, *Chairman,* and Alfred C. Redfield, *Secretary,* Physiology; W. R. Bloor and Howard B. Lewis, Biochemistry; Carl Voegtlin and E. D. Brown, Pharmacology; William F. Petersen and Carl V. Weller, Pathology.

Montreal, April 8–11, 1931

W. R. Bloor, *Chairman,* and H. B. Lewis, *Secretary,* Biochemistry; George B. Wallace and E. D. Brown, Pharmacology; Frederick L. Gates and C. Phillip Miller, Pathology; Walter J. Meek and Arno S. Luckhardt, Physiology.

Philadelphia, April 27–30, 1932

George B. Wallace, *Chairman,* and V. E. Henderson, *Secretary,* Pharmacology; Samuel R. Haythorn and C. Phillip Miller, Pathology; Walter J. Meek and Arno B. Luckhardt, Physiology; H. C. Bradley and Howard B. Lewis, Biochemistry.

Cincinnati, April 10–12, 1933

Peyton Rous, *Chairman,* and C. Phillip Miller, *Secretary,* Pathology; Arno B. Luckhardt and Frank C. Mann, Physiology; H. C. Bradley and

Howard B. Lewis, Biochemistry; Wm. deB. MacNider and V. E. Henderson, Pharmacology;

New York, March 28–31, 1934

Arno B. Luckhardt, *Chairman,* Frank C. Mann, *Secretary,* and Alexander Forbes, *Treasurer,* Physiology; W. M. Clark and H. A. Mattill, Biochemistry; W. deB. MacNider and V. E. Henderson, Pharmacology; Carl V. Weller and C. Phillip Miller, Pathology.

Detroit, April 10–13, 1935

W. M. Clark, *Chairman,* H. A. Mattill, *Secretary,* and C. H. Fiske, *Treasurer,* Biochemistry; Charles W. Greene and Frank C. Mann, Physiology; R. A. Hatcher and E. M. K. Geiling, Pharmacology; S. Burt Wolbach and Shields Warren, Pathology.

Washington, March 25–28, 1936

V. E. Henderson, *Chairman,* E. M. K. Geiling, *Secretary,* and C. M. Gruber, *Treasurer,* Pharmacology; Frank C. Mann and Andrew C. Ivy, Physiology; H. B. Lewis and H. A. Mattill, Biochemistry; Oskar Klotz and Shields Warren, Pathology.

Memphis, April 21–24, 1937

Alphonse R. Dochez, *Chairman,* and Shields Warren, Pathology; Frank C. Mann and Andrew C. Ivy, Physiology; Howard B. Lewis and H. A. Mattill, Biochemistry; V. E. Henderson and E. M. K. Geiling, Pharmacology. D. R. Hooker, *Secretary.*

Baltimore, March 30–April 2, 1938

William T. Porter, *Honorary President;* Walter E. Garrey, *Chairman,* and Andrew C. Ivy, Physiology; Glenn E. Cullen and H. A. Mattill, Biochemistry; Arthur L. Tatum and G. Philip Grabfield, Pharmacology; C. Phillip Miller and Paul R. Cannon, Pathology. D. R. Hooker, *Secretary.*

Toronto, April 26–29, 1939

Glenn E. Cullen, *Chairman,* and Charles G. King, Biochemistry; Arthur L. Tatum and G. Philip Grabfield, Pharmacology; C. Phillip Miller and Paul R. Cannon, Pathology; Walter E. Garrey and Andrew C. Ivy, Physiology. D. R. Hooker, *Secretary.*

New Orleans, March 13–16, 1940

E. M. K. Geiling, *Chairman,* and G. Philip Grabfield, Pharmacology; Ernest W. Goodpasture and Paul R. Cannon, Pathology; Andrew C. Ivy and Philip Bard, Physiology; William C. Rose and Charles G. King, Biochemistry. D. R. Hooker, *Secretary.*

Chicago, April 15–19, 1941

Shields Warren, *Chairman,* and H. P. Smith, Pathology; Thorne M. Carpenter and L. A. Maynard, Nutrition; Andrew C. Ivy and Philip Bard, Physiology; William C. Rose and Charles G. King, Biochemistry; E. M. K. Geiling and G. Philip Grabfield, Pharmacology. D. R. Hooker, *Secretary.*

Boston, March 31–April 4, 1942

Albert G. Hogan, *Chairman,* and Arthur H. Smith, Nutrition; Philip Bard and Carl J. Wiggers, Physiology; Rudolph J. Anderson and Arnold K. Balls, Biochemistry; E. M. K. Geiling and R. N. Bieter, Pharmacology; Jesse L. Bollman and H. P. Smith, Pathology. Shields Warren, *Ex-Chairman.* D. R. Hooker, *Secretary.*

1943, 1944, 1945: The meetings scheduled for Cleveland were cancelled because of war conditions

Philip Bard, *Chairman,* and W. O. Fenn, Physiology; E. A. Doisy and A. K. Balls, Biochemistry; E. K. Marshall, Jr. and R. N. Bieter, Pharmacology; Balduin Lucké and H. P. Smith, Pathology; L. A. Maynard and A. H. Smith, Nutrition; J. J. Bronfenbrenner and A. F. Coca, Immunology. D. R. Hooker, *Secretary.*

Atlantic City, March 11–15, 1946

Philip Bard, *Chairman;* W. O. Fenn, Physiology; A. B. Hastings and A. K. Balls, Biochemistry; E. E. Nelson and R. N. Bieter, Pharmacology; Balduin Lucké and H. P. Smith, Pathology; W. C. Rose and H. E. Carter, Nutrition; J. J. Bronfenbrenner and A. F. Coca, Immunology. D. R. Hooker, *Secretary.*

Chicago, May 18–22, 1947

A. B. Hastings, *Chairman,* and O. A. Bessey, Biochemistry; M. H. Seevers and H. B. Haag, Pharmacology; P. R. Cannon and F. S. Robscheit-Robbins, Pathology; A. H. Smith and H. E. Carter, Nutrition; Michael Heidelberger and A. F. Coca, Immunology; W. O. Fenn and M. B. Visscher, Physiology. W. H. Chambers, *Secretary.*

Atlantic City, March 15–19, 1948

M. H. Seevers, *Chairman,* and H. B. Haag, Pharmacology; D. H. Sprunt and F. S. Robscheit-Robbins, Pathology; R. M. Bethke and H. E. Carter, Nutrition; L. D. Felton and A. F. Coca, Immunology; W. O. Fenn and M. B. Visscher, Physiology; H. T. Clarke and O. A. Bessey, Biochemistry. W. H. Chambers, *Secretary.*

Detroit, April 18–22, 1949

H. P. Smith, *Chairman,* and F. S. Robscheit-Robbins, Pathology; E. M. Nelson and J. H. Roe, Nutrition; Michael Heidelberger and Jules Freund, Immunology; M. B. Visscher and D. B. Dill, Physiology; H. T. Clarke and O. A. Bessey, Biochemistry; Carl A. Dragstedt and H. B. Haag, Pharmacology. M. O. Lee, *Federation Secretary.*

Atlantic City, April 17–21, 1950

C. G. King, *Chairman,* and J. H. Roe, Nutrition; Thomas Francis, Jr., and Jules Freund, Immunology; C. J. Wiggers and D. B. Dill, Physiology; C. F. Cori and R. W. Jackson, Biochemistry; C. F. Schmidt and H. B. Haag, Pharmacology; J. G. Kidd and S. C. Madden, Pathology. M. O. Lee, *Federation Secretary.*

Cleveland, April 29–May 3, 1951

Geoffrey Edsall, *Chairman,* and Jules Freund, Immunology; D. B. Dill and R. W. Gerard, Physiology; H. B. Vickery and E. H. Stotz, Biochemistry; C. F. Schmidt and H. B. Haag, Pharmacology; J. F. Rinehart and S. C. Madden, Pathology; W. H. Griffith and J. H. Roe, Nutrition. M. O. Lee, *Federation Secretary.*

New York City, April 14–18, 1952

D. B. Dill, *Chairman,* H. E. Essex, R. W. Gerard, Physiology; Vincent du Vigneaud, E. H. Stotz, H. B. Vickery, Biochemistry; McKeen Cattell, C. C. Pfeiffer, C. F. Schmidt, Pharmacology; F. S. Robscheit-Robbins, R. L. Holman, J. F. Rinehart, Pathology; C. M. McCay, J. M. Orten, W. H. Griffith, Nutrition; C. M. MacLeod, J. Y. Sugg, Geoffrey Edsall, Immunology. M. O. Lee, *Federation Secretary.*

FORMER FEDERATION BOARDS

Chicago, April 6–10, 1953

Vincent du Vigneaud, *Chairman;* H. A. Mattill, D. W. Wilson, E. H. Stotz, Biochemistry; K. K. Chen, C. C. Pfeiffer, McKeen Cattell, Pharmacology; S. C. Madden, R. L. Holman, F. S. Robscheit-Robbins, Pathology; P. L. Day, J. M. Orten, C. M. McCay, Nutrition; J. F. Enders, J. Y. Sugg, C. M. MacLeod, Immunology; E. M. Landis, E. F. Adolph, R. W. Gerard, Physiology. M. O. Lee, *Federation Secretary.*

Atlantic City, April 11–16, 1954

K. K. Chen, *Chairman;* H. B. Haag, C. C. Pfeiffer, Pharmacology; D. M. Angevine, C. C. Erickson, S. C. Madden, Pathology; C. A. Elvehjem, J. M. Orten, P. L. Day, Nutrition; T. P. Magill, J. Y. Sugg, J. F. Enders, Immunology; E. F. Adolph, H. E. Essex, E. M. Landis, Physiology; D. W. Wilson, Philip Handler, Vincent du Vigneaud, Biochemistry. M. O. Lee, *Federation Secretary.*

San Francisco, April 11–15, 1955

D. M. Angevine, *Chairman;* R. L. Holman, C. C. Erickson, Pathology; G. R. Cowgill, R. W. Engel, C. A. Elvehjem, Nutrition; A. M. Pappenheimer, Jr., F. S. Cheever, T. P. Magill, Immunology; H. E. Essex, W. F. Hamilton, E. F. Adolph, Physiology; C. G. King, Philip Handler, D. W. Wilson, Biochemistry; C. M. Gruber, C. C. Pfeiffer, H. B. Haag, Pharmacology. M. O. Lee, *Federation Secretary.*

Atlantic City, April 16–20, 1956

G. R. Cowgill, *Chairman,* R. W. Engel, W. H. Sebrell, Jr., Nutrition; Jules Freund, F. S. Cheever, A. M. Pappenheimer, Jr., Immunology; W. F. Hamilton, A. C. Burton, H. E. Essex, Physiology; J. M. Luck, Philip Handler, C. G. King, Biochemistry; E. G. Gross, C. C. Pfeiffer, C. M. Gruber, Pharmacology; H. L. Stewart, C. C. Erickson, R. L. Holman, Pathology. M. O. Lee, *Federation Secretary.*

Chicago, April 15–19, 1957

Jules Freund, *Chairman;* M. W. Chase, F. S. Cheever, Immunology; A. C. Burton, L. N. Katz, W. F. Hamilton, Physiology; H. E. Carter, Philip Handler, J. M. Luck, Biochemistry; Harry Beckman, H. C. Hodge, E. G. Gross, Pharmacology; F. W. Hartman, C. C. Erickson, H. L. Stewart, Pathology; R. R. Williams, R. W. Engel, W. H. Sebrell, Jr., Nutrition. M. O. Lee, *Federation Secretary.*

Philadelphia, April 14–18, 1958

A. C. Burton, *Chairman,* L. N. Katz, Hallowell Davis, Physiology; J. T. Edsall, Philip Handler, H. E. Carter, Biochemistry; Otto Krayer, H. C. Hodge, Harry Beckman, Pharmacology; E. D. Warner, J. F. A. McManus, F. W. Hartman, Pathology; R. R. Williams, G. M. Briggs, R. W. Engel, Nutrition; J. H. Dingle, F. S. Cheever, M. W. Chase, Immunology. M. O. Lee, *Federation Secretary.*

Atlantic City, April 13–17, 1959

J. T. Edsall, *Chairman,* Severo Ochoa, H. G. Wood, Biochemistry; C. D. Leake, L. S. Goodman, Otto Krayer, Pharmacology; W. B. Wartman, C. C. Erickson, E. D. Warner, Pathology; W. J. Darby, D. W. Woolley, R. R. Williams, Nutrition; J. E. Smadel, W. C. Boyd, J. H. Dingle, Immunology; Hallowell Davis, R. F. Pitts, L. N. Katz, Physiology. M. O. Lee, *Federation Secretary.*

FEDERATION CONSTITUTION AND BYLAWS

Adopted at the New York City Meeting, April 17, 1952

CONSTITUTION

ARTICLE I. *Name*

The name of this organization is the Federation of American Societies for Experimental Biology.

ARTICLE II. *Purpose*

The purposes of the Federation are: to bring together investigators in biological and medical sciences represented by the member Societies; to disseminate information on the results of biological research through publications and scientific meetings; and to serve in other capacities in which the member Societies can function more efficiently as a group than as individual units.

ARTICLE III. *Membership*

SECTION 1. The constituent members of the Federation are, in order of seniority: The American Physiological Society; American Society of Biological Chemists, Inc.; American Society for Pharmacology and Experimental Therapeutics, Inc.; The American Society for Experimental Pathology; American Institute of Nutrition; The American Association of Immunologists.

SECTION 2. Other societies in the field of biological science may apply for membership, and may be admitted by unanimous consent of the Societies which are members at the time of application.

SECTION 3. Any constituent Society may withdraw from the Federation one year following written notification to the Federation Board of its intention.

ARTICLE IV. *Management*

The management of the Federation shall be vested in a Federation Board, on which each of the constituent Societies shall have equal membership. The Chairman of the Federation Board shall be furnished for a one-year term by each Society in its turn as determined by seniority in the Federation and shall be the member of that Society who is serving his third year as a member of the Federation Board.

ARTICLE V. *Amendments*

SECTION 1. *Amendments.* Amendments to this Constitution may be proposed by any of the constituent Societies. If approved by a two-thirds majority of the Federation Board, the proposal shall then be referred to the constituent Societies. The amendment shall be adopted when approved by all of the constituent Societies.

SECTION 2. *Bylaws.* Bylaws may be adopted or amended by the Federation Board at any meeting of the Board by a vote in which at least two of the representatives from each member Society must concur.

BYLAWS

(Amended, 1959)

ARTICLE I. *The Federation Board*

SECTION 1. The Federation Board shall consist of three representatives from each of the constituent Societies, each of whom shall serve for a term of three years, such term to commence on July 1. [Initially, each Society shall designate one of its representatives to serve for one year, another to serve for two years and the third to serve for three years.]

The Federation Board shall have the control and general management of the business affairs of the Federation. The Chairman shall have such powers and duties as are ordinarily exercised by the president of a corporation, including but not limited to the following: a) he shall preside at meetings of the Federation Board; b) he shall sign and execute all contracts, agreements and other legal documents in the name of the Federation upon authorization by the Federation Board.

SECTION 2. The Federation Board shall consider measures of advantage to the Federation. Any constituent Society may refer such measures to the Federation Board for consideration. In the interim between regular meetings of the Federation Board, such measures may be referred to all members of the Board by mail and the members may vote on such measures by mail ballot.

SECTION 3. The Federation Board may take such action, or may authorize the Chairman or the Executive Officer to take such action, as is approved by at least two representatives of each Society. The actions of the Federation Board shall be reported to the annual business meetings of the member Societies. A quorum of the Federation Board shall consist of not less than twelve Board members, with each constituent Society represented by at least two of its representatives.

SECTION 4. The Federation Board shall appoint annually a Secretary-Treasurer, to be known as the Executive Officer, who may present matters to the Federation Board for decision but who shall not be entitled to vote.

SECTION 5. The Federation Board shall control all monies of the Federation, determine the annual Federation assessment per member of the constituent Societies, set the subscription rates for Federation publications and the fees of the Placement Service, and appropriate monies for use of its authorized committees and the Executive Officer. The assessment shall be applied to each Society as of July 1 of each year and shall be due the Federation on that date.

SECTION 6. The Federation Board shall determine times and places of annual meetings of the Federation upon recommendations of the Executive Officer.

ARTICLE II. *Executive Officer*

The Executive Officer shall act as secretary to the Federation Board and be responsible for all Federation records; he shall act as treasurer for the Federation and submit audited financial statements to the Federation Board at the annual meeting; he shall be responsible for making the arrangements for the annual meeting of the Federation; he shall act as managing editor of the publications of the Federation; he shall supervise the Federation's Placement Service and make an annual report on its activity to the Federation Board; and he shall perform such other duties as prescribed by the Federation Board and which do not conflict with the Constitutions and Bylaws of the constituent Societies.

ARTICLE III. *Committees and Representatives*

SECTION 1. The Federation Board shall establish such committees and designate such representatives as desired and receive their reports. The Chairman of the Federation Board shall appoint, with the advice of the Board, the individual committee members and representatives, unless otherwise specified by the Board.

SECTION 2. An Advisory Committee, composed of one member designated by each constituent Society from its three representatives to the Federation Board, shall be a standing committee. Advisory Committee members shall be appointed for a term of three years, with two Societies designating representatives each year. Advisory Committee members' terms must coincide with their terms on the Federation Board. The Chairman of the Federation Board shall be the Chairman of the Advisory Committee. The Executive Officer and the immediate Past-Chairman of the Federation Board shall be ex officio members. The Committee shall meet at the call of the Chairman.

SECTION 3. A Public Information Committee shall be a standing committee of the Federation.

SECTION 4. A Secretaries Committee, composed of the Secretaries of the constituent Societies, shall be a standing committee of the Federation. The Chairman of this Committee shall be the Secretary of the senior Society for the year. This Committee shall be responsible for arranging the program of the annual meeting, shall act as an editorial board for Federation publications and shall perform such other functions in connection with the annual meeting as prescribed by the Federation Board.

SECTION 5. The Secretaries Committee shall meet during the winter, and a meeting of the entire Federation Board may be associated with this meeting.

ARTICLE IV. *Meetings*

SECTION 1. The Federation shall hold an annual meeting for presentation of papers at the scientific sessions of the constituent Societies or at general sessions of the Federation and for transaction of business.

SECTION 2. Abstracts of papers to be read at an annual meeting of the Federation must be submitted to the Secretary of the Society of which the proposer of the paper is a member, and such proposer must be either an author of the paper or introduce the author(s). No person may present orally more than one paper at the Federation meeting except at the invitation of the Secretary of an individual Society. The oral presentation of any paper shall be by the first named author, except by permission of the Secretary of the Society concerned.

SECTION 3. Each Society shall have the responsibility for selecting and arranging its scientific program and for setting its specific regulations, provided these are not in conflict with the general regulations under Section 2. The authors of the paper may request its transfer to the program of another Society, but this may be done only with the consent of the Secretaries of the two Societies concerned. Secretaries on their own initiative may transfer papers from the program of one Society to that of another. Transfers shall be indicated in the program.

SECTION 4. The abstracts of papers read at scientific sessions of all constituent Societies at the annual meeting shall be published in the FEDERATION PROCEEDINGS. Rules regarding the form and length of the abstracts shall be set by the Secretaries Committee and shall be circulated at least six weeks prior to the date set for receipt of the abstracts.

SECTION 5. The registration fee(s) for the annual meetings shall be set by the Advisory Committee.

ARTICLE V. *Publications*

The official publications of the Federation shall be FEDERATION PROCEEDINGS and such other publications as the Federation Board may authorize. FEDERATION PROCEEDINGS shall be owned by the Federation and published under the supervision of the Managing Editor and the Secretaries Committee. One issue, in two parts, shall contain the abstracts of papers and the program for the annual meeting. One issue shall contain the annual list of the members of the Societies and other pertinent information. Two other issues shall contain papers from the Joint Session, symposia and such other material as may be selected by the Secretaries Committee.

ARTICLE VI. *Placement Service*

The Federation shall maintain a Placement Service the function of which shall be to assist in the placing of professional personnel in suitable positions.

ARTICLE VII. *Seal*

The seal of this Federation shall be circular in form with the name of the Federation around the outer edge and in the center the words, "Incorporated in the District of Columbia January 19, 1954."

PLACEMENT SERVICE

The Federation maintains a service to act as a medium of communication between persons seeking positions in teaching or research and institutions that wish to fill vacancies in these sciences.

The Service does not undertake to recommend or to pass judgment upon applicants. It aims merely to serve as a clearing-house for such information as above stated and to bring into touch with one another candidates for positions and employers. It publishes quarterly lists of applicants in February, May, August and November, semiannual lists of available positions in March and September and a list of fellowships and assistantships in October. Publication of the February list of candidates and the March list of positions precedes the annual meeting, allowing time for correspondence between interested employers and candidates before the dates of the interview services provided them.

Individuals, whether members of the Federation or not, universities, other institutions and organizations desiring to avail themselves of the Service may receive such information as is available.

By action of the Executive Committee the following charges were authorized:

Annual applicant registration fee	$ 3
Annual subscription to all lists of the Service	$20
Single copy of list of candidates	$10
Single copy of available positions	$ 5
Single copy of fellowship list	$ 2

A single copy of the fellowship list will be sent without cost to any member of a constituent Society upon written request.

To be eligible to use the arrangements for interviews at the annual meeting an employer must be an annual subscriber or a subscriber to the then current February list of applicants.

All communications should be addressed to: Federation Placement Service, 9650 Wisconsin Ave., Washington 14, D. C.

THE AMERICAN PHYSIOLOGICAL SOCIETY

Founded December 30, 1887; Incorporated June 2, 1923

OFFICERS, 1959–1960

President—R. F. Pitts, Cornell University Medical College, New York City.

President-Elect (Secretary)—J. H. Comroe, Jr., University of California Medical Center, San Francisco, California.

Past-President—Hallowell Davis, Central Institute for the Deaf, St. Louis, Missouri.

Council—Hallowell Davis, R. F. Pitts, T. C. Ruch (1959), James Daniel Hardy (1960), H. S. Mayerson (1961), J. H. Comroe, Jr. (1962), H. W. Davenport (1962).

Executive Secretary-Treasurer—R. G. Daggs, 9650 Wisconsin Avenue, Washington 14, D. C.

Administrative Advisor—M. O. Lee, 9650 Wisconsin Avenue, Washington 14, D. C.

STANDING COMMITTEES

Membership Advisory—Members of the Council.

Educational Matters—H. W. Davenport (1960), *Chairman;* A. W. Martin, Jr. (1961), Hermann Rahn (1962), C. A. M. Hogben (1963), R. B. Tschirgi (1963); Representatives of Society of General Physiologists—S. R. Tipton (1963), R. R. Ronkin (1963).

Use and Care of Animals—A. B. Otis (1961) *Chairman;* Allan Hemingway (1962), Robert Galambos (1963).

Placement of Senior Physiologists—D. B. Dill (1962), *Chairman;* W. O. Fenn (1961), W. F. Hamilton (1960), E. M. Landis (1962).

Porter Fellowship—J. M. Brookhart (1961), *Chairman;* Hermann Rahn (1960), T. C. Ruch (1962).

Program Advisory—J. H. Comroe, Jr. (1960), *Chairman.*

Committee on International Physiology of the American Physiological Society—W. O. Fenn (1965), *Chairman;* R. W. Gerard (1961), M. B. Visscher (1963).

Historian—John Field, II.

REPRESENTATIVES TO OTHER ORGANIZATIONS

American Association for the Advancement of Science—F. A. Hitchcock (1960), R. G. Daggs.

American Documentation Institute—M. O. Lee (1961).

American Institute of Biological Sciences—W. O. Fenn (1962).

National Research Council—Division of Biology and Agriculture, J. O. Hutchens (1961); Division of Medical Sciences, R. W. Gerard (1961).

Council on Medical Education and Hospitals, A.M.A.—J. S. Gray (1961).

A.P.S. Members of the United States National Committee for the International Union of Physiological Sciences—W. O. Fenn (1965), R. W. Gerard (1961), M. B. Visscher (1963), E. M. Landis (alternate).

Council for Coordination of International Congresses—M. B. Visscher.

Council of International Organizations in Medical Sciences—M. B. Visscher.

A.P.S. Representatives on Joint Symposium Committee on Neuropharmacology—H. E. Himwich (1961), T. C. Ruch (1961).

EDITORIAL BOARDS

Board of Publication Trustees—Philip Bard (1961), *Chairman;* W. F. Hamilton (1960), Hermann Rahn (1962).

Managing Editor—M. O. Lee.

Secretary of Publications—Sara F. Leslie.

Associate Editor, Physiological Reviews—R. G. Daggs.

American Journal of Physiology and *Journal of Applied Physiology*—W. D. Armstrong (1960), R. S. Alexander (1961), E. J. Baldes (1962), S. B. Barker (1961), R. W. Berliner (1962), J. R. Brobeck (1962), A. F. Cournand (1962), F. P. Chinard (1962), R. C. de Bodo (1960), Philip Dow (1960), W. S. Fowler (1962), A. S. Gilson, Jr. (1960), H. D. Green (1960), E. G. Gross (1962), A. C. Guyton (1961), H. K. Hartline (1962), A. B. Hastings (1962), H. E. Himwich (1962), Alexander Hollaender (1960), L. B. Jaques (1961), F. H. Johnson (1961), R. E. Johnson (1961), Ancel Keys (1960), W. J. Kolff (1961), Nathan Lifson (1960), W. F. H. M. Mommaerts (1960), G. H. Mudge (1962), E. S. Nasset (1962), H. M. Patt (1960), R. L. Riley (1962), Sidney Roberts (1962), Sid Robinson (1962), Jane Russell (1960), P. F. Salisbury (1961), S. J. Sarnoff (1961), O. H. Schmitt (1960), W. H. Seegers (1962), E. E. Selkurt (1960), H. L. White (1960), E. H. Wood (1960), W. B. Youmans (1960). *Consultant Editors:* A. Albert (1960), A. C. Burton (1960), J. H. Comroe, Jr. (1961), W. O. Fenn (1962), Alfred Gilman (1962), A. C. Ivy (1960), C. N. H. Long (1960), R. F. Pitts (1960), J. P. Quigley (1960), T. C. Ruch (1961), M. B. Visscher (1962).

Physiological Reviews—H. S. Mayerson (1961), *Chairman;* C. F. Code (1960), E. M. Landis (1960), V. B. Mountcastle (1960), A. B. Otis (1961), I. H. Page (1960), J. R. Pappenheimer

(1962), R. M. Reinecke (1961). *Appointee of the Society of General Physiologists*—D. R. Griffin (1960); *Appointees of the Society of Biological Chemists*—J. M. Buchanan (1960), E. L. Smith (1960). *European Editorial Committee:* G. Kahlson, *Chairman;* H. Barcroft, A. Fessard.

Annual Review of Physiology—John Field, II, (1960), *Chairman;* J. M. Brookhart (1960), H. W. Davenport (1960), G. K. Moe (1960).

PAST OFFICERS

Presidents—**1888** H. P. Bowditch. **1889–1890** S. W. Mitchell. **1891–1895** H. P. Bowditch. **1896–1904** R. H. Chittenden. **1905–1910** W. H. Howell. **1911–1913** S. J. Meltzer. **1914–1916** W. B. Cannon. **1917–1918** F. S. Lee. **1919–1920** W. P. Lombard. **1921–1922** J. J. R. MacLeod. **1923–1925** A. J. Carlson. **1926–1929** J. Erlanger. **1930–1932** W. J. Meek. **1933–1934** A. B. Luckhardt. **1935** C. W. Greene. **1936–1937** F. C. Mann. **1938–1939** W. E. Garrey. **1938** W. T. Porter, *Honorary President.* **1940–1941** A. C. Ivy. **1942–1946** P. Bard. **1947** W. O. Fenn. **1948** M. B. Visscher. **1949** C. J. Wiggers. **1950** H. C. Bazett (April to July); D. B. Dill. **1951** R. W. Gerard. **1952** E. M. Landis. **1953** E. F. Adolph. **1954** H. E. Essex. **1955** W. F. Hamilton. **1956** A. C. Burton. **1957** L. N. Katz. **1958** Hallowell Davis.

Secretaries—**1888–1892** H. N. Martin. **1893–1894** W. P. Lombard. **1895–1903** F. S. Lee. **1904** W. T. Porter. **1905–1907** L. B. Mendel. **1908–1909** R. Hunt. **1910–1914** A. J. Carlson. **1915–1923** C. W. Greene. **1924–1929** W. J. Meek. **1930** A. C. Redfield. **1931–1932** A. B. Luckhardt. **1933–1935** F. C. Mann. **1936–1939** A. C. Ivy. **1940–1941** Philip Bard. **1942** C. J. Wiggers. **1943–1946** W. O. Fenn. **1947** M. B. Visscher.

Treasurers—**1888–1892** H. N. Martin. **1893–1894** W. P. Lombard. **1895–1903** F. S. Lee. **1904** W. T. Porter, **1905–1912** W. B. Cannon. **1913–1923** J. Erlanger. **1924–1926** C. K. Drinker. **1927–1936** Alexander Forbes. **1937–1940** W. O. Fenn. **1941** C. J. Wiggers. **1942–1946** Hallowell Davis. **1947** D. B. Dill.

Executive Secretary-Treasurer—**1948–1956** M. O. Lee. **1956** R. G. Daggs.

CONSTITUTION AND BYLAWS

Adopted at the 1953 Spring Meeting

CONSTITUTION

ARTICLE I. *Name*

The name of this organization is THE AMERICAN PHYSIOLOGICAL SOCIETY.

ARTICLE II. *Purpose*

The purpose of the Society is to promote the increase of physiological knowledge and its utilization.

BYLAWS

(Amended April 1958)

ARTICLE I. *Membership*

SECTION 1. The Society shall consist of members, honorary members and associate members.

SECTION 2. *Members.* Any person who has conducted and published meritorious original research in physiology and/or biophysics and who is a resident of North America shall be eligible for membership in the Society.

SECTION 3. *Honorary Members.* Distinguished scientists of any country who have contributed to the advance of physiology shall be eligible for proposal as honorary members of the Society.

SECTION 4. *Associate Members.* Advanced graduate students in physiology at a predoctoral level, teachers of physiology, and investigators who have not yet had the opportunity or time to satisfy the requirements for full membership shall be eligible for associate membership in the Society provided they are residents of North America.

ARTICLE II. *Officers*

SECTION 1. The management of the Society shall be vested in a Council consisting of the President, the President-Elect, the Past-President for the previous year, and four other members. The terms of the President and of the President-Elect shall be one year. The terms of the four additional Councilors shall be four years each and they shall not be eligible for immediate reelection except those who have served for two years or less in filling interim vacancies. A person may serve only one term as President, except that if the President-Elect becomes President after September 30 he shall continue as President for the year beginning the next July 1st.

SECTION 2. Nomination and election of a President-Elect and Councilor(s) shall be by ballot at the Spring meeting of the Society. They shall assume office on July 1 following their election.

SECTION 3. The President-Elect shall serve as Vice-President and Secretary. Should he have to function as President prematurely, the Council shall select from among its own members a Secretary.

SECTION 4. The Council shall be empowered to appoint and compensate an Executive Secretary-Treasurer who shall assist it in carrying on the functions of the Society, including the receipt and disbursement of funds under the direction of the Council.

SECTION 5. The Council may fill any interim vacancies in its membership or vacancies on any Board or Committee of the Society, unless otherwise provided.

ARTICLE III. *Dues*

SECTION 1. The annual assessment on members and on associate members shall be determined by the Council and shall be due in advance on July 1.

SECTION 2. A member whose dues are two years in arrears shall cease to be a member of the Society, unless after payment of his dues in arrears and application to the Council, he shall be reinstated at the next Spring meeting by special vote of the Council. It shall be the duty of the Secretary to notify the delinquent of his right to request reinstatement.

SECTION 3. A member who has retired from employment because of illness or age may, upon application to the Council, be relieved from the payment of the annual member assessment.

ARTICLE IV. *Meetings*

SECTION 1. A meeting of the Society for transacting business, electing officers and members, presenting communications, and related activities, shall be held in the Spring of each year, with other member Societies of the Federation of American Societies for Experimental Biology, except that under exceptional circumstances the Council may cancel such a meeting.

SECTION 2. A Fall meeting of the Society shall be held at a time and place determined by the Council, for presenting communications and for transacting business except the election of officers.

SECTION 3. Special meetings of the Society or of the Council may be held at such times and places as the Council may determine.

SECTION 4. Regional meetings of the Society, for the purpose of presenting scientific communications, may be authorized by the Council.

ARTICLE V. *Publications*

SECTION 1. The official organs of the Society shall be the American Journal of Physiology, the Journal of Applied Physiology, Physiological Reviews and such other publications as the Society may own.

SECTION 2. A Board of Publication Trustees, composed of three members of the Society and appointed by the Council, shall be vested with with the full power of the Society to control and manage, both editorially and financially, all of the publications of the Society; to appoint editorial boards; to appoint and compensate a Managing Editor; and to control all publication funds, none of which, however, may be diverted from support of the publications of the Society except by consent of the Council. The term of each member of the Board shall be three years; a member may not serve more than two consecutive terms. The Council shall designate the Chairman of the Board, and shall receive an annual report on the finances, publications and policies. A summary of this report shall be presented to the Society at the Spring meeting.

The Chairman of the Board of Publication Trustees shall be a member ex-officio of the Council but shall have no vote.

ARTICLE VI. *Committees and Representatives*

The Council may appoint such special and standing committees as it deems necessary or that are voted by the Society.

The Council may name members of the Society as representatives to other organizations whenever it deems such action desirable.

ARTICLE VII. *Standing Rules*

1. *Election to Membership.* Two members of the Society must join in proposing a person for membership, in writing and with a statement of his qualifications. The Council may, from the persons so proposed, nominate candidates for election to membership. Nominations shall be presented at Spring and Fall meetings; a two-thirds majority vote of the members present and voting at the next following Fall or Spring meeting shall be necessary for election.

If a Spring or Fall meeting of the Society is not held, the procedures of nomination and/or election of new members may be effected by mail.

The names of the candidates nominated by the Council for membership and statements of their qualifications signed by their proposers shall be available for inspection by members during the Society meetings at which their election is considered.

2. *Election to Honorary Membership.* The proposal of an honorary member shall be made by two members of the Society to the Council in writing. The Council may, from the candidates so proposed, make nominations to the Society at a Spring meeting. A two-thirds majority vote of the members present shall be necessary for election.

Honorary members shall have the privilege of attending business sessions of the Society but shall have no vote. They shall pay no membership fees.

3. *Election to Associate Membership.* Associate members shall be proposed, nominated and elected in the same manner as full members.

Associate members shall have the privilege of attending business sessions of the Society but shall have no vote. Associate members may be nominated for full membership.

4. *Presentation of Papers.* At a Spring meeting of the Society, held in conjunction with the Federation meetings, a member or honorary member may present orally or by title, be co-author of, or introduce not more than one scientific paper, except upon invitation of the Council. An associate member or a non-member may present orally one scientific paper only if sponsored by a full member of the Society. At a

Fall meeting, a member, honorary member, or associate member may present orally not more than one paper, except upon invitation of the Council.

Upon invitation by the Council, a member may contribute papers to specially designated sessions of the Society without forfeit of his privilege of presenting a regular scientific communication.

5. There shall be a Committee on Membership appointed by and advisory to the Council.

6. There shall be a Program Advisory Committee appointed by the Council.

ARTICLE VIII. *General*

SECTION 1. *Amendments.* These Bylaws, except Article VII, may be amended at any Spring meeting of the Society by a three-fourths majority vote of the members present.

The Standing Rules of Article VII may be amended by a majority vote of the members present at either a Spring or Fall meeting of the Society.

SECTION 2. *Quorum.* At all business meetings of the Society fifty members shall constitute a quorum.

SECTION 3. *Parliamentary Authority.* The rules contained in Roberts Rules of Order shall govern the conduct of the business meetings of the Society in all cases to which they are applicable and in which they are not inconsistent with the Bylaws or special rules of order of the Society.

AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS

Founded December 6, 1906; Incorporated September 12, 1919

OFFICERS, 1959–1960

President—H. G. Wood, Western Reserve University, Cleveland, Ohio.

President-Elect—Fritz Lipmann, The Rockefeller Institute, New York City.

Past-President—Severo Ochoa, New York University, New York City.

Secretary—F. W. Putnam, University of Florida, Gainesville.

Treasurer—W. E. Cohn, Oak Ridge National Laboratory, Oak Ridge, Tennessee.

Council—H. G. Wood, Fritz Lipmann, Severo Ochoa, F. W. Putnam, W. E. Cohn, H. A. Lardy, Philip Handler, J. S. Fruton, W. J. Stein.

STANDING COMMITTEES

Nominating Committee—Arthur Kornberg (1958–60), *Chairman;* D. E. Green (1959–60), I. C. Gunsalus (1958–60), R. D. Hotchkiss (1959–60), H. M. Kalckar (1959–60), E. P. Kennedy (1959–60), Efraim Racker (1959–60), E. L. Smith (1958–60), E. R. Stadtman (1959–60).

Editorial Committee—W. H. Stein (1955–61), *Chairman;* P. D. Boyer (1959–65), C. F. Cori (1959–65), B. D. Davis (1959–65), I. C. Gunsalus (1957–63), B. L. Horecker (1957–63), Arthur Kornberg (1955–61), Birgit Vennesland (1957–63), H. G. Wood (1955–61).

Finance Committee—P. P. Cohen (1951–56, 1956–61), *Chairman;* W. E. Cohn (1959–60), J. T. Edsall (1957–63), W. H. Stein (1958–60), H. G. Wood (1959–60).

Historian—H. T. Clarke.

Legal Counsel—A. S. Davis.

Editorial Board, Journal of Biological Chemistry

J. T. Edsall (1954–63), *Editor;* R. A. Alberty (1958–63), E. G. Ball (1950–55, 1955–60), Konrad Bloch (1951–56, 1956–61), H. E. Carter (1950–55, 1955–60), H. N. Christensen (1958–63), H. T. Clarke (1956–61), M. Cohn (1958–63), W. E. Cohn (1955–60), S. P. Colowick (1959–64), Leslie Hellerman (1951–56, 1956–61), E. P. Kennedy (1958–63), H. A. Lardy (1958–63), A. L. Lehninger (1954–59, 1959–60), Alton Meister (1958–63), Stanford Moore (1950–55, 1955–60), Hans Neurath (1954–59, 1959–60), Severo Ochoa, (1950–55, 1955–60), Efraim Racker (1959–64), Sarah Ratner (1959–64), E. L. Smith (1958–63), H. B. Vickery (1941–), Oskar Wintersteiner (1951–56, 1956–61).

SPECIAL COMMITTEES

Membership Committee—Alton Meister (1957–60), *Chairman;* L. O. Krampitz (1959–62), E. G. Krebs (1959–62), V. R. Potter (1958–61), G. W. Schwert (1957–60), E. R. Stadtman (1958–61).

Program Committee—Philip Handler, *Chairman;* W. L. Byrne, E. A. Davidson, Irwin Fridovich, Henry Kamin, W. S. Lynn, S. J. Wakil, J. B. Wyngaarden.

Revision of Bylaws—H. B. Vickery (1952–61), Chairman; V. du Vigneaud (1958–61), A. B. Hastings (1958–61).

Clinical Chemistry—Robert Hill (1954–60), *Chairman;* W. J. Darby (1954–60), Edward Muntwyler (1959–62), J. I. Routh (1959–62).

Committee on Biochemical Nomenclature (Joint with American Institute of Nutrition)—W. M. Sperry (1956–60), *Chairman;* G. B. Brown (1959–61).

Travel Awards—I. C. Gunsalus (1957–60), *Chairman;* Paul Berg (1959–64), E. P. Kennedy (1958–63), E. E. Snell (1957–62), Dewitt Stetten, Jr. (1957–61).

Educational Affairs—Hans Neurath, *Chairman;* H. E. Carter, G. R. Greenberg, Samuel Gurin, W. D. McElroy, G. W. Schwert, F. W. Putnam, *ex officio.*

Plans for Scientific Meetings—D. E. Green, *Chairman;* P. D. Boyer, G. L. Cantoni, Jordi Folch, Philip Handler, L. O. Krampitz, H. K. Schachman, W. M. Sperry.

REPRESENTATIVES TO OTHER ORGANIZATIONS

American Association for the Advancement of Science—W. F. Loomis (1958–60), Abraham White (1958–60).

National Committee on Biochemistry—Severo Ochoa (1956–59), C. A. Elvehjem (1957–60), E. L. Smith (1958–61).

National Research Council—Division of Biology and Agriculture, F. E. Deatherage (1958–61); Division of Chemistry and Chemical Technology, Sidney Weinhouse (1958–61); Division of Medical Sciences, R. C. Warner (1959–62); Board of International Critical Tables, W. M. Clark; Committee on Biological Chemistry, Division of Chemistry and Chemical Technology, G. B. Brown (1957–60), H. G. Wood (1958–61), S. P. Colowick (1959–62).

Committee on Organic Nomenclature, A.C.S.—H. S. Loring.

American Board of Clinical Chemistry, Inc.—R. M. Archibald, J. H. Roe, W. J. Darby.

PAST OFFICERS

Presidents—**1907** R. H. Chittenden. **1908** J. J. Abel. **1909** Otto Folin. **1910** T. B. Osborne. **1911** L. B. Mendel. **1912–1913** A. B. Macallum. **1914** Graham Lusk. **1915–1916** Walter Jones. **1917–1918** C. L. Alsberg. **1919–1920** S. R. Benedict. **1921–1922** D. D. Van Slyke. **1923–1924** P. A. Shaffer. **1925** H. C. Sherman. **1926** E. C. Kendall. **1927–1928** E. V. McCollum. **1929–1930** W. R. Bloor. **1931–1932** H. C. Bradley. **1933–1934** W. M. Clark. **1935–1936** H. B. Lewis. **1937–1938** G. E. Cullen. **1939–1940** W. C. Rose. **1941–1942** R. J. Anderson. **1943–1944** E. A. Doisy. **1945–1946** A. B. Hastings. **1947–1948** H. T. Clarke. **1949** C. F. Cori. **1950** H. B. Vickery. **1951** V. du Vigneaud. **1952** H. A. Mattill. **1953** D. W. Wilson. **1954** C. G. King. **1955** J. M. Luck. **1956** H. E. Carter. **1957** J. T. Edsall. **1958** Severo Ochoa.

Vice-Presidents—**1907** J. J. Abel. **1908** Otto Folin. **1909** T. B. Osborne. **1910** L. B. Mendel. **1911** A. B. Macallum. **1912–1913** Graham Lusk. **1914–1915** C. L. Alsberg. **1916** F. P. Underhill. **1917–1918** A. P. Mathews. **1919–1920** D. D. Van Slyke. **1921–1922** P. A. Shaffer. **1923–1924** H. C. Sherman. **1925** E. C. Kendall. **1926** E. V. McCollum. **1927–1928** W. R. Bloor. **1929–1930** H. C. Bradley. **1931–1932** W. M. Clark. **1933–1934** H. B. Lewis. **1935–1936** G. E. Cullen. **1937–1938** W. C. Rose. **1939–1940** R. J. Anderson. **1941–1942** E. A. Doisy. **1943–1944** A. B. Hastings. **1945–1946** H. T. Clarke. **1947–1948** C. F. Cori. **1949** H. B. Vickery. **1950** V. du Vigneaud. **1951** H. A. Mattill. **1952** D. W. Wilson. **1953** C. G. King. **1954** J. M. Luck.

Presidents-Elect—**1955** H. E. Carter. **1956** J. T. Edsall. **1957** S. Ochoa. **1958** H. G. Wood.

Secretaries—**1907–1909** W. J. Gies. **1910–1912** A. N. Richards. **1913–1915** P. M. Shaffer. **1916–1918** S. R. Benedict. **1919–1923** V. C. Myers. **1924–1925** D. W. Wilson. **1926** F. C. Koch. **1927–1928** D. W. Wilson. **1929–1932** H. B. Lewis. **1933–1937** H. A. Mattill. **1938–1940** C. G. King. **1941–1945** A. K. Balls. **1946–1948** O. A. Bessey. **1949** R. W. Jackson. **1950–1953** E. H. Stotz. **1953–1958** P. Handler. **1958** F. W. Putnam.

Treasurers—**1907–1909** L. B. Mendel. **1910–1912** Walter Jones. **1913–1916** D. D. Van Slyke. **1917–1921** H. C. Bradley. **1922–1925** W. R. Bloor. **1926–1930** G. E. Cullen. **1931–1935** C. H. Fiske. **1936–1940** A. B. Hastings. **1941–1945** W. C. Stadie. **1946–1950** E. A. Evans, Jr. **1951–1956** P. P. Cohen. **1957–1959** Stanford Moore.

CONSTITUTION

From the Articles of Incorporation

1. The name of the proposed corporation is "AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, INCORPORATED."

2. The purposes for which this corporation is formed are to further the extension of biochemical knowledge and to facilitate personal intercourse between American investigators in biological chemistry.

BYLAWS

(As revised, 1959)

ARTICLE I. *Membership*

SECTION 1. *Eligibility for Membership.* Qualified investigators who have conducted and published meritorious original investigations in biological chemistry shall be eligible for membership in the Society.

SECTION 2. *Nomination.* Nominations for membership shall be made and seconded by members of the Society on blanks furnished by the Secretary. Nominations shall be submitted to the Council who shall determine eligibility and make recommendation to the Society at a regular meeting.

SECTION 3. *Election to Membership.* A nominee for membership may be voted for by ballot at any meeting of the Society after the Council has declared the nominee to be eligible and endorsed. A majority of the ballots cast shall elect.

SECTION 4. *Forfeiture.* A. Any member who grants the use of his name for the advertisement or for the promotion of the sale of a product to be used for medicine or for food, this product not being one of demonstrated usefulness or value, or who shall act in a manner that is not in the public interest, shall forfeit his membership.

B. The Council shall have authority to announce forfeiture of membership provided that a copy of the charges, together with a written notice of a hearing thereon with time and place specified, shall have been delivered at least thirty days before the date of such hearing to the member charged with the violation.

SECTION 5. *Expulsion.* Upon recommendation of the Council any member may be expelled by a majority vote of the members present at a Business Meeting of the Society, provided that a copy of the charges together with a written notice of a hearing with time and place specified, shall have been delivered to the member at least thirty days before the date of such hearing.

ARTICLE II. *Meetings and Quorum*

SECTION 1. *Annual.* The annual meeting of the Society shall be held on the date fixed by the Certificate of Incorporation.

SECTION 2. *Special.* A special meeting may be called at any time by the President, or in case of his absence or disability by the President-Elect, and must be called at the request of a majority of the Council or fifty members of the Society. A notice specifying the purpose of such meeting shall be mailed to each member at least ten days previous thereto. The Council shall select the places at which all meetings shall be held.

SECTION 3. *Quorum.* Fifty members shall constitute a quorum at all meetings of the Society, but in the absence of a quorum any number shall be sufficient to adjourn to a fixed date.

ARTICLE III. *Officials*

SECTION 1. *Officers.* The officers shall be a President, a President-Elect, a Secretary, and a Treasurer, who shall be elected annually by the members of the Society.

SECTION 2. *Council* A. The Officers so elected, and three additional members, one of whom shall be elected at each annual meeting of the Society to serve a three year term, shall constitute the Board of Directors of the Corporation and shall be known as the Council. The immediate Past-President and the Chairman of the Editorial Committee shall be invited to meet with the Council but shall not have the power to vote.

B. No two members of the Council may be from the same institution, and none of the members shall be eligible for re-election until after the lapse of one year, except the Secretary and Treasurer who shall each be eligible for re-election for five successive years.

SECTION 3. *Duties of Officers.* The powers and duties of the officers elected by the Society shall be such as usually devolve upon their respective positions. The President-Elect shall act as President in case of the inability of the President to serve.

ARTICLE IV. *The Council*

SECTION 1. *Powers.* The general management of the Society during the intervals between meetings shall be vested in the Council, which shall regularly perform the ordinary duties of an executive committee and shall possess all of the powers conferred upon the Board of Directors of a membership corporation by the Membership Corporation Law of the State of New York.

SECTION 2. *Reports.* The Council shall report to the Society as promptly as possible its findings on the eligibility of candidates for membership and on all charges of a violation of these By-Laws.

ARTICLE V. *Nominations and Elections*

SECTION 1. *Nominating Committee.* A. The Nominating Committee shall consist of nine members from nine different institutions. Members who have served for two consecutive years shall be ineligible for re-election until after the lapse of one year. The members shall be elected at each annual meeting from a slate provided by the incumbent Nominating Committee, this slate to contain the names of at least fifteen Society members, each from a different institution, provided that this slate contain not more than five names of members of the incumbent Nominating Committee and further provided that to this slate there shall be added the name of any Society member received by the Secretary and supported by the petition of twenty or more Society members.

B. The nine nominees from different institutions who receive the highest number of votes on the official ballot shall be declared elected to the Nominating Committee, the one receiving the most votes being declared its Chairman and Secretary. Tie votes for the position of Chairman, or for the person in the ninth position in the report of the Tellers, shall be resolved by a vote cast by the President. The name of the person in tenth position shall be held as an alternate to serve in the event of the disability of one of the elected members other than the Chairman. In the event of the disability of the Chairman, the newly elected Nominating Committee shall elect its Chairman from among its own members including the alternate.

SECTION 2. *Nominations.* A. The Nominating Committee shall make not less than *two* nominations for the offices of the President-Elect and *two* for the position of Councilor, and at least one nomination for each of the remaining offices. In addition the Nominating Committee shall provide a slate of at least fifteen names of members of the Society selected as specified in Article V, Section 1 A, who shall be candidates for positions on the Nominating Committee of the following year. Furthermore, the Nominating Committee in each alternate year shall make not less than three nominations for positions on the Editorial Committee in accordance with the provisions of Article VII, Section 1 of these By-Laws. The names of nominees for each office shall be listed alphabetically on the ballot.

B. The nominations by the Nominating Committee must be transmitted to the Secretary at least two months before the annual meeting at which they are to be considered.

C. The Secretary shall prepare and send to every member, at least three weeks before the annual meeting, a printed ballot which shows the nominations of the Nominating Committee for the several offices and positions together with such other properly supported independent nominations for the Nominating Committee as may have been submitted by petition and received by him.

D. Nominations for membership on the Nominating Committee may be made by any member of the Society in the form of a petition addressed to the Secretary and to be received by him at least two months before the annual meeting. Such petitions must be supported by the signatures of not less than twenty members of the Society either attached to the petition or to accompanying documents.

SECTION 3. *Elections.* A. The members of the Society shall individually vote on the printed

ballots presented to them by the Secretary and shall return them in signed envelopes to the Secretary not later than the hour set for the opening of the first executive session of the Annual Meeting.

B. At the time during the annual meeting that the election shall have been declared closed by the President, the Secretary shall present to the Tellers, appointed by the President to take charge of the election, all signed ballots received by him.

C. All elective positions shall be filled by ballot according to a report presented by the Tellers at an executive session of the annual meeting.

D. A *plurality* of the votes cast shall be necessary to elect, and in case of a tie vote the President shall cast the deciding ballot.

E. Elected officers shall take office on July 1st following the annual meeting.

SECTION 4. *Filling of Vacancies.* A. The Nominating Committee shall fill all vacancies in elective positions except such as may occur at a meeting of the Society. Any vacancy which occurs at a meeting shall be filled temporarily by vote of the Council.

B. The President of the Society shall fill all vacancies in appointive positions. The President-Elect shall designate the appointees to those positions whose term of office commences coincidental with or subsequent to his succession to the Presidency.

ARTICLE VI. *Financial*

SECTION 1. *Dues.* Annual assessments shall be determined by majority vote at the annual meetings, upon the recommendation of the Council. Members who have reached the age of 65 years, or who have become incapacitated, may request the consideration of the Council for exemption from payment of Society dues.

SECTION 2. *Expenditures.* No expenditures from the general funds of the Society except those required in the performance of the ordinary official duties shall be made except by vote of the Society or the Council or of its Finance Committee. Expenditures from any special funds which have accrued from taxation of the membership or otherwise shall require either the vote of the Council or of a Committee designated by the Council.

SECTION 3. *Privileges of Membership Begin with Payment of Dues.* Newly elected members are entitled to the privileges of membership only after payment of the dues following their election. Such dues shall be paid on or before July 1 of each year.

SECTION 4. *Penalty for Non-Payment of Dues.* A member who has not paid dues within a period of one year after billing shall, upon being billed for the succeeding year, be notified of forfeiture of membership unless all indebtedness to the Society is met within 60 days. Reinstatement shall require the request of the delinquent member, approval by the Council, and liquidation of all indebtedness.

SECTION 5. *Herter Fund.* A. *Use.* The "Christian A. Herter Memorial Fund" shall be held and invested separately from the general funds of the Society, in accordance with the terms of the agreement dated May 16, 1911, executed by the Journal of Biological Chemistry and the donors of said fund. The income thereof shall be expended under the direction of the Editorial Board exclusively for the maintenance and support of the Journal of Biological Chemistry subject to the supervision and control of the Finance Committee of the Council in accordance with the Trust Agreement.

B. *Trust Agreement.* The Council may from time to time make Agreement with a Trust Company which shall then serve as the depositary of the investments and income of the "Christian A. Herter Memorial Fund" hereinafter called the Herter Fund and of such other funds as the Society may from time to time commit to its charge. The Trust Company shall have and exercise the following powers and duties, viz., the custody and safekeeping of securities and cash belonging to the Herter Fund and other funds and the collection of income and other moneys due, with power to receipt for the same and to endorse for deposit all checks payable to the Society or the Treasurer, or to the Journal of Biological Chemistry for income or other moneys due to the Herter Fund or other funds; the investment or reinvestment of the capital of the Herter Fund or other funds, subject to the approval of the Council or the Chairman of the Finance Committee; the disbursement of principal under the direction of the Council and the disbursement of income of the Herter Fund under the direction of the Editorial Board of the Journal of Biological Chemistry with the approval of the Chairman of the Finance Committee of the Council. The Trust Company shall keep books of account and render statements, annually or oftener upon the request of the Council or its Finance Committee, setting forth the condition of the Herter Fund or other funds and the receipts and disbursements since the date of the preceding statement.

SECTION 6. *Finance Committee.* A. *Membership.* The Finance Committee shall consist of the President of the Society, the Treasurer of the Society, the Editor of the Journal of Biological Chemistry, and the Chairman of the Editorial Committee *ex officiis* together with one member of the Society to be appointed by the Council for a period of five years. The President shall designate the Chairman annually from among its members.

B. *Duties.* The Finance Committee shall meet at the time of the annual meeting of the Society or at the call of the Chairman or President and shall examine and verify the records of the Trust Company and all financial records

concerning the manufacture and sale of the Journal of Biological Chemistry, these records having been duly audited by an independent public accountant. They shall at all times act as the agents of the Council with respect to the financial acts of the Trust Company as defined in Sub-section B of Section 5 and the financial acts of the Editor of the Journal of Biological Chemistry. They shall render an annual report to the Council.

ARTICLE VII. *Journal of Biological Chemistry*

SECTION 1. *Editorial Committee.* The Editorial Committee shall consist of nine members of the Society from different institutions who shall be nominated by the Nominating Committee and elected by the Society in the same manner as the officers. The term of office shall be six years and members shall not be eligible for re-election until after an interval of one year. Three members shall be elected each alternate year to succeed the three members whose terms shall have expired.

SECTION 2. *Powers of Committee.* The Editorial Committee shall elect a Chairman from among its own membership and the Chairman shall be eligible for re-election. The Committee shall have the power to appoint the members of the Editorial Board from among the membership of the Society and to determine their term of office. In making these appointments, the recommendations of the Editor of the Journal are to be taken into consideration with respect to the qualifications of the appointees and to the needs of the Journal. The Committee shall have the final authority in matters pertaining to the editorial conduct of the Journal.

SECTION 3. *Editorial Board.* The members of the Editorial Board shall be appointed by the Editorial Committee to assist the Editor in the editorial conduct of the Journal. The expenditure of the income of the Herter Fund shall be under the direction of the Editorial Board, subject to the provisions of Article VI, Section 5, of these By-Laws.

SECTION 4. *Editor.* The Editor of the Journal shall be appointed by the Council, in consultation with the Editorial Board and the Editorial Committee, for a term not to exceed five (5) years, and may be so reappointed for additional terms of five years or less. The Editor shall not serve beyond 68 years of age except under unusual circumstances, when reappointment shall be made for one-year terms. He shall have direct responsibility and authority, subject to the policies of the Editorial Committee, for the editorial conduct of the Journal and, subject to the policies of the Council, for the management of the Journal's affairs, including contracts for publication, approval of advertising, office administration, and related activities. He shall report to the Chairmen of of the Editorial Committee and of the Finance Committee in advance of the regular annual meeting, and through them to the Council, on the editorial and financial condition of the Journal, with such recommendations as he deems proper for its content, form, editorial and financial policies.

ARTICLE VIII. *Papers on Scientific Subjects*

SECTION 1. *Presentation of Papers.* The Council shall set specifications on the time allotment for presentation of papers by members at meetings of the Society. Members shall have the privilege of introducing non-members for the purpose of presenting papers unless the privilege is revoked or limited by the Council.

SECTION 2. *Number of Papers.* The Council shall, from time to time, set the rules on the number of papers which may be presented by a member, as necessitated by changing circumstances but with regard to equality of privilege for the members.

ARTICLE IX. *Corporate Seal*

SECTION 1. The corporate seal of the corporation shall be a circle surrounded by the words, "AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS," and including the word, "INCORPORATED."

ARTICLE X. *Amendments*

SECTION 1. *Manner of Presentation.* Proposed amendments to the By-Laws must be sent to the Secretary at least three months before the date of the meeting at which they are to be considered and must be endorsed in writing by at least three members.

SECTION 2. *Notice of Intended Amendments.* The Secretary shall notify each member of proposed amendments at least three weeks before the meeting at which they are to be considered.

SECTION 3. *Adoption of Amendments.* After discussion at the first executive session, the Council shall instruct the Secretary whether to conduct the balloting at an executive session of the Society or by mail. Affirmative votes from three-fifths of the members voting shall be required for the adoption of an amendment. Amendments shall become effective July 1 following their adoption.

AMERICAN SOCIETY FOR PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS

Founded December 28, 1908; Incorporated June 19, 1933

OFFICERS, 1959–1960

President—L. S. Goodman, University of Utah, Salt Lake City.

President-Elect—Alfred Gilman, Albert Einstein College of Medicine, New York City 61.

Past-President—C. D. Leake, Ohio State University, Columbus.

Treasurer—A. D. Bass, Vanderbilt University, Nashville, Tennessee.

Treasurer-Elect—F. E. Shideman, University of Wisconsin, Madison 6.

Secretary—K. H. Beyer, Jr., Merck Sharp & Dohme Research Laboratories, West Point, Pennsylvania.

Council—C. D. Leake, L. S. Goodman, Otto Krayer, A. D. Bass, H. C. Hodge, K. H. Beyer, Jr., O. H. Lowry (1960), R. M. Featherstone (1961), W. F. Riker, Jr. (1962).

Historian—E. M. K. Geiling.

COMMITTEES

Membership Committee—J. A. Bain (1960) *Chairman;* G. B. Koelle (1961), W. C. Wescoe (1962).

Nominating Committee—E. L. Way, *Chairman;* T. M. Brody, Avram Goldstein, Sidney Udenfriend, C. A. Winter.

Standing Committee on Educational Affairs—A. D. Bass (1960), Klaus Unna (1960), K. H. Beyer, Jr. (1960), G. H. Acheson (1961), Avram Goldstein (1962), Louis Lasagna (1961), T. H. Maren (1962).

Committee on Professional Affairs and Public Relations—A. E. Farah (1960), Alfred Gilman (1960), F. S. Philips (1961), Ernest Bueding (1961).

Program Committee—N. C. Moran (1960), P. B. Dews (1961).

REPRESENTATIVES TO OTHER ORGANIZATIONS

American Association for the Advancement of Science—G. A. Alles, McKeen Cattell.

National Research Council—Division of Biology and Agriculture, W. M. Booker (1960); Division of Medical Sciences, J. C. Krantz, Jr. (1960).

International Union of Physiological Sciences—C. F. Schmidt, K. K. Chen, J. A. Shannon, Otto Krayer.

EDITORIAL BOARD

Board of Publication Trustees—M. H. Seevers (1960), *Chairman;* L. S. Goodman (1961), Otto Krayer (1962), Lawrence Peters, G. B. Koelle.

Journal of Pharmacology and Experimental Therapeutics—Lawrence Peters, *Editor;* N. C. Moran, *Assistant Editor;* R. M. Isenberger, *Index Editor;* Eleanor Bates, *Secretary of Publications.*

Editors for Specific Fields—Avram Goldstein (Biochemical and Cellular Pharmacology); J. J. Burns (Drug Metabolism and Disposition); G. H. Mudge (Renal Pharmacology and Electrolytes); N. C. Moran (Autonomic and Cardiovascular Pharmacology); H. L. Borison (Neuropharmacology); P. B. Dews (Psychopharmacology); Louis Lasagna (Clinical Pharmacology); J. A. Zapp, Jr. (Toxicology).

Editorial Board—Julius Axelrod, H. K. Beecher, M. deV. Cotten, E. F. Domino, W. W. Douglas, K. P. Dubois, Sidney Ellis, D. W. Fassett, R. F. Furchgott, H. C. Hodge, R. W. Houde, D. J. Jenden, Eva Killam, P. L. Munson, Norton Nelson, Barbara Rennick, W. K. Riker, Jay Roberts, F. W. Schueler, C. C. Smith, C. M. Smith, H. F. Smyth, Jr., J. L. Strominger, E. W. Sutherland, Jr., E. L. Way, T. C. West, D. M. Woodbury, L. W. Woods.

Pharmacological Reviews—G. B. Koelle, *Chairman;* G. H. Acheson, H. Blaschko, G. A. H. Buttle, Erik Jacobsen, Mark Nickerson, F. S. Philips, Börje Uvnäs, Marthe Vogt. *Editorial Advisory Board*—Adrien Albert, F. von Brücke, K. Bucher, A. S. V. Burgen, J. A. Cohen, B. B. Dikshit, Pietro Di Mattei, Fernando Peres Gomez, P. Holtz, J. Jacob, Y. Kobayashi.

PAST OFFICERS

Presidents—**1909–1912** J. J. Abel. **1913–1915** T. Sollmann. **1916–1918** Reid Hunt. **1919–1920** A. S. Loevenhart. **1921–1923** C. W. Edmunds. **1924–1926** John Auer. **1927–1929** Carl Voegtlin. **1930–1931** G. B. Wallace. **1932–1933** W. de B. MacNider. **1934** R. A. Hatcher. **1935–1936** V. E. Henderson. **1937–1938** A. L. Tatum. **1939** O. H. Plant. **1940–1941** E. M. K. Geiling. **1942–1943** E. K. Marshall, Jr. **1944–1945** E. E. Nelson. **1946–1947** M. H. Seevers. **1948** C. A. Dragstedt. **1949–1950** C. F. Schmidt. **1951** McKeen Cattell. **1952** K. K. Chen. **1953** H. B.

Haag. **1954** C. M. Gruber. **1955** E. G. Gross. **1956** Harry Beckman. **1957** Otto Krayer. **1958** C. D. Leake.

Vice-Presidents—**1932** A. N. Richards. **1933–1934** A. L. Tatum. **1935–1936** O. H. Plant. **1937–1939** E. M. K. Geiling. **1940–1941** C. F. Schmidt. **1942–1943** C. A. Dragstedt. **1944–1945** C. M. Gruber. **1946** H. B. Van Dyke. **1947** C. A. Dragstedt. **1948** H. B. Van Dyke. **1949** J. C. Krantz. **1950** McKeen Cattell.

Presidents-Elect—**1951** K. K. Chen. **1952** H. B. Haag. **1953** C. M. Gruber. **1954** E. G. Gross. **1955** Harry Beckman. **1956** Otto Krayer. **1957** C. D. Leake. **1958** L. S. Goodman.

Secretaries—**1909–1911** Reid Hunt. **1912–1916** J. Auer. **1917** L. G. Rowntree. **1918–1930** E. D. Brown. **1931–1933** V. E. Henderson. **1934–1936** E. M. K. Geiling. **1937–1940** G. P. Grabfield. **1941–1945** R. N. Bieter. **1946–1950** H. B. Haag. **1951–1955** C. C. Pfeiffer. **1956–1959** H. C. Hodge.

Treasurers—**1909–1913** A. S. Loevenhart. **1914–1920** W. de B. MacNider. **1921–1923** H. McGuigan. **1924–1928** A. L. Tatum. **1929–1934** O. H. Plant. **1935–1938** C. M. Gruber. **1939–1943** E. E. Nelson. **1944–1946** McKeen Cattell. **1947–1950** K. K. Chen. **1951–1953** R. P. Walton. **1954–1957** J. M. Dille. **1958** A. D. Bass.

CONSTITUTION

ARTICLE I. *Name*

The name of this organization is the American Society for Pharmacology and Experimental Therapeutics, Incorporated.

ARTICLE II. *Object*

The purpose of this Society is to promote pharmacological knowledge and its use among scientists and to issue publications for this purpose.

ARTICLE III. *Membership*

SECTION 1. The Society shall consist of members and honorary members.

SECTION 2. A. Any qualified investigator who has conducted and published a meritorious original investigation in pharmacology shall be eligible for membership in the Society, subject to the conditions set forth in the by-laws.

SECTION 2. B. Distinguished scientists of any country who have contributed to the advance of pharmacological science shall be eligible for proposal as honorary members of the Society, subject to the conditions set forth in the by-laws.

SECTION 3. The Council, for appropriate reasons, may decide that it is for the best interests of the Society that a member or an honorary member be expelled. In this case, the member shall be notified and given an opportunity for a hearing before the Council. If a majority of the members of the Council favor expulsion, the Council shall so recommend to the Society. A vote of three-fourths of the members present at an executive session of the Society shall be required for expulsion. Subsequent reinstatement shall follow the course prescribed for candidates for membership.

ARTICLE IV. *Officers*

SECTION 1. The management of the Society shall be vested in a Council consisting of the President, the President-Elect, the immediate Past-President, the Secretary, the Treasurer, the Secretary-Elect or the Treasurer-Elect, and three other Councilors.

SECTION 2. The President-Elect, either the Secretary-Elect or the Treasurer-Elect, and one other Councilor shall be elected at each annual meeting and shall assume office on July 1 or January 1, whichever occurs first after their election.

SECTION 3. The President-Elect shall become President after one year as President-Elect or upon the earlier death or resignation of the President, and two years after assuming office as President-Elect, he shall become Past-President for one year.

SECTION 4. The Councilors shall serve for three years.

SECTION 5. A Secretary-Elect and a Treasurer-Elect shall be elected in alternate years to serve for one year before taking over the post as Secretary and Treasurer, respectively, for a term of two years.

SECTION 6. Vacancies on the Council or committees which occur between annual meetings shall be filled by a majority vote of the Council. The persons so chosen shall serve until the next meeting of the Society, at which time the vacancies shall be filled by election.

ARTICLE V. *Standing Committees*

SECTION 1. There shall be a Membership Committee consisting of three members of the Society who hold no other elective office in the Society. One shall be elected at each annual meeting and serve for three years.

SECTION 2. There shall be a Nominating Committee consisting of five members of the Society who hold no other office in the Society. All shall be nominated and elected at the annual meeting. They shall serve for one year.

SECTION 3. A. The President, after consultation with the Council and subject to approval by the Society at its next executive session, shall appoint one member of the Board of Publications Trustees each year, and shall designate the Chairman of the Board.

SECTION 3. B. The Board shall elect an Editor for each official journal of the Society.

Each Editor shall act as an additional voting member of the Board in all its activities except election of Editors of the journals.

SECTION 3. C. The Board shall be vested with full power from the Society to control and manage, both editorially and financially, all publications of the Society. The Chairman of the Board shall be an *ex officio* member of the Council without vote and shall keep the Council informed of the major activities of the Board. He shall report annually to the Society at an executive session.

SECTION 3. D. The Editor of each journal may nominate Associate Editors for election by the Board.

SECTION 3. E. The members of the Board and the Associate Editors shall serve for three years, are eligible for reappointment, and may hold office concurrently in the Society.

ARTICLE VI. *Meetings*

Except as provided in the by-laws, the annual meeting or other meetings of the Society shall be held at times and places determined by the Council. At least four weeks before such meetings, notice of their time and place shall be sent to each member of the Society.

ARTICLE VII. *Financial*

SECTION 1. Beyond the expenditures required by the ordinary activities of the Society, no money from the general Society account shall be disbursed save by authority of the Council or the Society.

SECTION 2. The annual assessment shall be determined by majority vote at an executive session of the Society, upon recommendation of the Council. It shall become due on the following July 1 unless another time is recommended by the Council and approved by the Society.

SECTION 3. The Treasurer shall give a financial report at the annual meeting.

SECTION 4. All publication funds shall be kept in a separate account, subject to the control of the Board of Publications Trustees. No publication funds may be diverted for other than publication purposes without the approval of the Society upon joint recommendation of the Board and the Council. The Board shall make an annual financial report to the Society at an executive session.

ARTICLE VIII. *Quorum*

Fifty members shall constitute a quorum for the transaction of business.

ARTICLE IX. *Amendments*

SECTION 1. Intended amendments to the Constitution, or certificate of incorporation, may be acted upon at any executive session of the Society, provided that each proposal is endorsed in writing by at least three members and is placed in the hands of the President not less than two months before the meeting. At least four weeks before the meeting at which amendments are to be considered, the proposed amendments and notice of the time and place at which they will be considered shall be sent to each member. A four-fifths vote of the members present shall be required for the adoption of an amendment to the Constitution or certificate of incorporation.

SECTION 2. Adoption, alteration, or repeal of by-laws may be moved at any executive session of the Society. Their passage shall require a two-thirds vote of the members present in each of two executive sessions of the Society on separate days.

BY-LAWS

I. *Members*

1. Except as hereinafter provided, after 1958 only persons having legal residence in the United States, its dependencies, Canada, and Mexico shall be eligible for election as members of the Society.

2. In special cases, candidates for membership from areas other than those described in By-Law I.1. may be proposed by the Membership Committee or by the Council. These candidates must be unanimously approved by the Council and the Membership Committee; their election by the Society shall follow the rules prescribed for members.

3. Candidates for membership shall be proposed by two members of the Society, who are not members of the Council, at least ten months before the annual meeting, on forms provided by the Secretary.

4. The Membership Committee shall investigate the qualifications of the candidates for membership and report to the Council at least four months prior to the annual meeting.

5. The Council may recommend for election as members the candidates reported to them provided they have been approved by two-thirds of the combined members present of the Membership Committee and the Council.

6. The names of the candidates recommended for admission by the Council shall be posted not later than the day preceding the election of members.

7. New members shall be elected at the annual meeting. The election shall be by individual, secret ballot. One opposing vote in every eight cast shall be enough to exclude a candidate from membership.

8. Nomination and election of honorary members shall follow the rules prescribed for members.

9. Honorary members shall have the privileges of membership but are not subject to the annual assessment.

10. Any member of the Society who has been a member for thirty years, or who has retired because of disability or age, may upon approval of the Council be relieved from the annual assessment. He shall retain the privileges of membership.

11. Any member whose assessment is three years in arrears shall cease to be a member of the Society, unless he is reinstated by a vote of the Council. The delinquent shall be notified of his impending disqualification and informed of his right to appeal to the Council for reinstatement.

II. *Nomination and Election*

1. Only members shall be eligible for election or appointment to the Council and Standing Committees of the Society.

2. No person who has served as President more than 3 months is eligible for re-election as President-Elect.

3. Persons elected as Councilors shall not be eligible for immediate re-election on expiration of their term of office.

4. The Executive Secretary shall not hold elective office in the Society.

5. No two members of the Membership Committee shall be from the same institution. None shall be eligible for immediate re-election.

6. No two members of the Nominating Committee shall be from the same institution. Members of the Nominating Committee are eligible for re-election for only one additional consecutive term.

7. The Nominating Committee shall make at least two nominations for each elective office except the Nominating Committee. At least four weeks before the annual meeting, these nominations shall be sent to each member together with notification of the time and place of the election.

8. Additional nominations may be made from the floor at the annual meeting, during the session at which the election occurs.

9. At least ten nominations for members of the Nominating Committee shall be made from the floor during the session at which the election occurs. The five nominees who receive the highest number of votes shall be declared elected.

10. At the first executive session of the annual meeting, each member present shall be given a printed ballot showing the nominations by the Nominating Committee and providing spaces for adding nominations made from the floor. A preliminary vote will be made from these ballots, and the tellers, appointed by the President, shall as soon as possible post a list showing the two nominees for each office who have received the highest number of votes. A final vote between these pairs of candidates shall be taken at the close of the first executive session of the annual meeting. A majority of the votes cast shall be necessary for election. Both of the said votes shall be by secret ballot.

III. *Officers and Committees*

1. The Council may appoint and compensate an Executive Secretary to assist it in carrying on the functions of the Society, including receipt and disbursement of funds under direction of the Council.

2. That member of the Membership Committee who has served the longest current consecutive period shall be the chairman of the Committee.

3. The member of the Nominating Committee elected by the highest number of votes shall be the chairman.

4. The Board of Publications Trustees shall meet at least once a year. Three members shall constitute a quorum for the conduct of business.

5. Only members of the Society are eligible as Editors or Associate Editors of the Society's journals, except that foreign non-members may be Associate Editors of international journals of the Society.

6. Non-members of the Society may be appointed to editorial advisory committees in connection with the activities of the Society's journals.

IV. *Meetings*

1. The annual meeting of the Society shall be the meeting held in conjunction with the Federation of American Societies for Experimental Biology.

2. The Council shall designate one or more of its members to arrange the scientific programs and may appoint a Program Committee to assist in this task.

3. The Council shall establish regulations governing the presentation of papers at scientific sessions. These regulations shall be sent to each member at least three months before any meeting at which they are to apply.

4. Executive sessions of the Society may be held at any of its meetings.

5. The Council shall insure that only members attend and cast votes in the executive sessions of the Society.

6. The rules contained in O. Garfield Jones, Parliamentary Procedure at a Glance, Appleton-Century-Crafts, Inc., New York, 1949 edition, shall govern the conduct of the executive sessions of the Society when they are applicable and are not inconsistent with this Constitution and By-Laws or with special rules of order adopted by the Society.

THE AMERICAN SOCIETY FOR EXPERIMENTAL PATHOLOGY

Founded December 29, 1913; Incorporated August 31, 1950

OFFICERS, 1959–1960

President—C. C. Erickson, University of Tennessee, Memphis 3.

Vice-President—Jacob Furth, Childrens Cancer Research Foundation, Chicago, Illinois.

Past-President—W. B. Wartman, Northwestern University, Chicago 11, Illinois.

Secretary-Treasurer—J. F. A. McManus, University of Alabama Medical Center, Birmingham.

Asst. Secretary-Treasurer—K. M. Brinkhous, University of North Carolina School of Medicine, Chapel Hill.

Council—W. B. Wartman, C. C. Erickson, J. F. A. McManus, Jacob Furth (1957–59), K. M. Brinkhous (1958–60), R. W. Wissler.

SPECIAL COMMITTEES

Meritorious Award or Honors Committee—T. D. Kinney, *Chairman;* D. H. Sprunt, Sidney Madden, D. M. Angevine, C. E. Dunlap.

Publications Committee—R. B. Jennings, *Chairman;* J. F. A. McManus, J. J. Lalich.

Membership Survey Committee—W. H. Carnes, *Chairman;* P. J. Fitzgerald, H. I. Firminger, J. G. Brunson, J. R. Carter, C. L. Yuile, E. P. Benditt.

Nutritional Pathology Committee—R. L. Holman, *Chairman;* R. H. Follis, Jr., C. L. Pirani, W. S. Hartroft, A. J. Cox, Jr., H. L. Radcliffe.

REPRESENTATIVES TO OTHER ORGANIZATIONS

National Research Council—Division of Biology and Agriculture, Hans Schlumberger; Division of Medical Sciences, R. L. Holman.

American Association for the Advancement of Science—Israel Davidsohn, George Hass.

Eli Lilly Award Committee (Joint with the Society of American Bacteriologists)—*Nominations:* A. J. Cox (1959), T. T. Hamilton (1960), *Awards:* F. J. Dixon (1960).

Commission for Biological Stains—J. F. A. McManus.

Intersociety Committee on Increasing Research Potential—C. C. Erickson.

Intersociety Committee on Pathology Information—R. W. Wissler.

PAST OFFICERS

Presidents—**1914** R. M. Pearce. **1915** Theobald Smith. **1916** Simon Flexner. **1917** Ludvig Hektoen. **1918** H. G. Wells. **1919** W. G. MacCallum. **1920** W. H. Park. **1921** F. G. Novy. **1922** H. T. Karsner. **1923** E. L. Opie. **1924** A. S. Warthin. **1925** G. H. Whipple. **1926** W. H. Brown. **1927** David Marine. **1928** E. B. Krumbhaar. **1929** W. F. Petersen. **1930** F. L. Gates. **1931** S. R. Haythorn. **1932** Peyton Rous. **1933** C. V. Weller. **1934** S. B. Wolbach. **1935** Oskar Klotz. **1936** A. R. Dochez. **1937** C. P. Miller. **1938** Morton McCutcheon. **1939** E. W. Goodpasture. **1940** Shields Warren. **1941** J. L. Bollman. **1942–1945** Balduin Lucké. **1946** P. R. Cannon. **1947** D. H. Sprunt. **1948** H. P. Smith. **1949** J. G. Kidd. **1950** J. F. Rinehart. **1951** F. S. Robscheit-Robbins. **1952** S. C. Madden. **1953** D. Murray Angevine. **1954** R. L. Holman. **1955** H. L. Stewart. **1956** F. W. Hartman. **1957** E. D. Warner. **1958** W. B. Wartman.

Vice-Presidents—**1914** J. S. Anderson. **1915** G. H. Whipple. **1916–1917** Leo Loeb. **1918** W. G. Mac Callum. **1919** W. H. Park. **1920** F. G. Novy. **1921** H. T. Karsner. **1922** E. L. Opie. **1923** A. S. Warthin. **1924** G. H. Whipple. **1925** W. H. Brown. **1926** David Marine. **1927** E. B. Krumbhaar. **1928** W. F. Petersen. **1929** F. L. Gates. **1930** S. R. Haythorn. **1931** Peyton Rous. **1932** C. V. Weller. **1933** S. B. Wolbach. **1934** Oskar Klotz. **1935** A. R. Dochez. **1936** C. P. Miller. **1937** Morton McCutcheon. **1938** E. W. Goodpasture. **1939** Shields Warren. **1940** J. L. Bollman. **1941** Balduin Lucké. **1942–1945** P. R. Cannon. **1946** D. H. Sprunt. **1947** H. P. Smith. **1948** J. G. Kidd. **1949** J. F. Rinehart. **1950** F. S. Robscheit-Robbins. **1951** S. C. Madden. **1952** D. M. Angevine. **1953** R. L. Holman. **1954** H. L. Stewart. **1955** F. W. Hartman. **1956** E. D. Warner. **1957** W. B. Wartman. **1958** C. C. Erickson.

Secretary-Treasurers—**1914** G. H. Whipple. **1915–1916** Peyton Rous. **1917–1920** H. T. Karsner. **1921–1923** W. H. Brown. **1924–1926** E. B. Krumbhaar. **1927–1929** C. V. Weller. **1930–1933** C. P. Miller. **1934–1936** Shields Warren. **1937–1939** P. R. Cannon. **1940–1945** H. P. Smith. **1946–1949** F. S. Robscheit-Robbins. **1949–1950** S. C. Madden. **1951–1952** R. L. Holman. **1953–1957** C. C. Erickson. **1957** J. F. A. McManus.

CONSTITUTION

ARTICLE I. *Name*

The Society shall be named "THE AMERICAN SOCIETY FOR EXPERIMENTAL PATHOLOGY."

ARTICLE II. *Object*

The object of this Society is to bring the productive investigators in pathology, working essentially by experimental methods, in closer

affiliation with the workers in the other fields of experimental medicine.

ARTICLE III. *Time and Place of Meeting*

The Society shall meet at the same time and place as the Federation of American Societies for Experimental Biology, which comprises at present the American Physiological Society, the American Society of Biological Chemists, the American Society for Pharmacology and Experimental Therapeutics, the American Society for Experimental Pathology, the American Institute of Nutrition and the American Association of Immunologists.

ARTICLE IV. *Membership*

SECTION 1. Any American investigator who, through the use of experimental methods, has, within three years prior to his candidacy, contributed meritorious work in pathology, is eligible to membership.

SECTION 2. It shall be the policy of the Society to restrict its membership to as small numbers as is compatible with the maintenance of an active existence.

SECTION 3. There shall be two classes of members: active and honorary members.

Active members: Candidates for active membership shall be nominated at or before an annual meeting by two members of the Society. The nominators shall present to the Secretary in writing evidence of the candidate's qualifications for membership. Nominations approved by the Council shall be presented to the Society for election at the next annual meeting following nomination. For election a favorable ballot by a majority of the members present is necessary.

Honorary members: These may be elected from the active list or from the group of distinguished investigators at home or abroad who have contributed to the knowledge of pathology by experimental study. They shall be elected only by the unanimous vote of the members present at time of nomination.

SECTION 4. Active members shall pay such annual dues as are determined upon, from year to year, by the Council. Honorary members shall pay no dues, are not eligible to office, and have no vote in the business affairs of the Society, but they shall have all the privileges of the active members in the scientific proceedings.

SECTION 5. Upon failure of an active member to pay dues for two years, notice shall be given to the member by the Secretary. At the end of the third year, if dues are still unpaid, such failure constitutes forfeiture of membership.

SECTION 6. A motion for expulsion of a member must be thoroughly investigated by the Council; at this investigation the accused shall be afforded a hearing or may be represented by a member. Expulsion can be accomplished only after a unanimous vote by the Council in favor of expulsion, sustained by a four-fifths vote of the members present at the meeting.

ARTICLE V. *Officers*

The management of the Society shall be vested in a Council of six members, consisting of a President, the Past President, a Vice-President, a Secretary-Treasurer, and two other members who shall be nominated by the Council and elected by the Society. Officers are elected by a majority vote and remain in office until July 1 following the Federation Meeting. Vacancies shall be filled by the Council for the unexpired term.

The President and Vice-President shall hold office for one year and are ineligible for re-election during the following year. The Secretary-Treasurer is eligible for re-election. Councilors shall hold office for two years and are elected on alternate years. At the first election one Councilor shall be elected for a short term of one year.

ARTICLE VI. *Quorum*

SECTION 1. Three constitute a quorum of the Council. The Council decides by a majority vote.

SECTION 2. A quorum of the Society for transaction of business shall be 30 active members. In all questions brought before the Society a majority vote of those present shall decide, except as elsewhere provided for.

ARTICLE VII. *Annual Meeting*

SECTION 1. Papers shall be limited to ten minutes. However, on motion and with unanimous consent, the time may be prolonged by a period not exceeding five minutes. The Council may make provision for longer papers on suitable occasions.

SECTION 2. The subjects of papers must be confined to experimental work in pathology. In doubtful cases a liberal interpretation by the President and Secretary may prevail. The Council may invite, however, presentations dealing with any subject which it considers of considerable interest to the Society.

ARTICLE VIII. *Change of Constitution*

A motion concerning a change of the Constitution must be presented to the Council in writing by three members, and must be communicated to the members by the Secretary at least four weeks before the annual meeting. At this meeting such a change may be established when accepted by a four-fifths vote of the members present.

BY-LAWS

1. There must be in each year at least one meeting of the Council, which shall take place not later than the evening before the annual meeting.

2. At the end of the first session of the annual meeting the Secretary shall read the report of the Council. This report shall include (1) names of persons recommended for membership, (2) nominations for offices, (3) matters of general interest. The Secretary shall exhibit in a conspicuous place the names of candidates for membership recommended by the Council, together with the evidence of the qualifications of the candidates.

3. The election of officers and of new members, changes in the Constitution, etc., shall be voted upon at the end of the first session.

4. Changes in the By-Laws may be determined by a majority vote of those present.

5. In the year that a new Secretary-Treasurer is elected the incoming Council Member elected that year, or another member of the Council, shall become Assistant Secretary-Treasurer for the duration of the term of the Secretary-Treasurer.

AMERICAN INSTITUTE OF NUTRITION

Founded April 11, 1933; Incorporated November 16, 1934; Member of Federation 1940

OFFICERS, 1959–1960

President–D. W. Woolley, Rockefeller Institute, New York City.

President-Elect–F. S. Daft, National Institutes of Health, Bethesda, Maryland.

Past-President–W. J. Darby, Vanderbilt University, Nashville, Tennessee.

Secretary–G. M. Briggs, National Institutes of Health, Bethesda, Maryland (1960).

Treasurer–J. B. Allison, Rutgers, The State University, New Brunswick, New Jersey, (1962).

Council–D. W. Woolley, F. S. Daft, W. J. Darby, G. M. Briggs, J. B. Allison, Paul György (1960), J. H. Roe (1961), W. H. Griffith (1962).

STANDING COMMITTEES

Nominating Committee–Gladys Emerson, *Chairman;* H. H. Williams, C. A. Baumann, R. W. Engel, J. M. Hundley.

Committee on Membership (ad hoc)–A. E. Harper, *Chairman;* W. J. Darby, Gladys Emerson, Paul György, E. M. Hegsted, A. E. Schaefer, L. D. Wright.

Committee on Nomenclature (Joint with American Society of Biological Chemists)–O. L. Kline (1961), P. L. White (1960).

Committee on Journal of Nutrition Management (ad hoc): W. J. Darby *(Chairman),* F. S. Daft, O. L. Kline, H. A. Schneider.

Borden Award Nominating Committee–C. A. Baumann (1960), *Chairman;* G. V. Mann (1961), E. E. Snell (1962).

Osborne-Mendel Award Nominating Committee–D. M. Hegsted (1960), *Chairman;* J. S. Dinning (1961), Grace Goldsmith (1962).

Fellows Committee–C. G. Mackenzie (1960), *Chairman;* Paul György (1960), W. D. Salmon (1961), Karl Folkers (1961), E. W. McHenry (1962).

Public Information Committee–R. W. Engel (1960), *Chairman;* LeRoy Voris (1960), A. E. Schaefer (1960), G. M. Briggs (1960) *(ex officio).*

Auditing Committee–M. W. Taylor (1960), *Chairman;* W. H. Ott (1960).

Tellers Committee–H. R. Bird (1960), *Chairman;* M. K. Horwitt (1960).

U. S. National Committee–IUNS: Paul György (1961), *Chairman;* W. H. Sebrell, Jr. (1961), *Vice-Chairman;* R. W. Engel (1960), *Secretary;* LeRoy Voris (1960), M. O. Lee (1960), E. L. Severinghaus (1961), Gladys Emerson (1962), J. M. Hundley (1962), A. E. Schaefer (1962). *Ex officio (voting) members:* D. W. Woolley (1960), Grace Goldsmith, C. G. King (1961); *(non-voting) members:* H. B. Steinbach, R. K. Cannan, W. W. Atwood, Jr., E. V. McCollum.

Fifth International Congress on Nutrition, 1960. Officers and Committees (Organized by American Institute of Nutrition and U. S. National Committee of IUNS)–E. V. McCollum, *Honorary President;* C. G. King, *President. Organizing Committee:* Paul György, *Chairman;* M. O. Lee, *General Secretary;* G. M. Briggs, *Recording Secretary;* W. H. Sebrell, Jr., *Chairman of Program Committee;* E. L. Severinghaus, *Chairman of Finance and Budget Committee;* F. S. Daft, *Chairman of Hospitality Committee (and Co-Chairman of Finance and Budget Committee);* W. J. Darby, *Chairman of Lectureships and Travel Assistance Committee;* Hazel Stiebeling, *Chairman of Publications Committee;* LeRoy Voris, *Chairman of Public Information Committee; Other Members:* C. H. Best, C. A. Elvehjem, Gladys Emerson, R. W. Engel, Grace Goldsmith, F. Gomez-S, J. M. Hundley, L. A. Maynard, L. B. Pett, H. E. Robinson, F. J. Stare, R. R. Williams.

REPRESENTATIVES TO OTHER ORGANIZATIONS

National Research Council Boards and Divisions–N. R. Ellis (1960).

American Association for the Advancement of Science–To Section C, E.L.Severinghaus (1960); to Section N, P.L.Day (1961).

Food and Agriculture Organization–J.M. Hundley (1960).

Editorial Board, Journal of Nutrition

R. H. Barnes (1964), *Editor;* C. P. Berg (1960), C. G. Mackenzie (1960), H. R. Bird (1960), R. W. Engel (1961), P. L. Harris (1961), H. A. Schneider (1961), O. L. Kline (1962), E. S. Nasset (1962), Herbert Pollack (1962), D. V. Frost (1963), A. E. Harper (1963), O. Mickelsen (1963).

PAST OFFICERS

(Year Elected)

Presidents–**1933** L. B. Mendel. **1934–1935** J. R. Murlin. **1936** E. F. DuBois. **1937** Mary S. Rose. **1938** E. V. McCollum. **1939** H. C. Sherman. **1940** T. M. Carpenter. **1941** A. G. Hogan. **1942** L. A. Maynard. **1943** H. B. Lewis. **1944** Icie G. Macy-Hoobler. **1945** W. C. Rose. **1946** A. H. Smith. **1947** R. M. Bethke. **1948** E. M. Nelson. **1949** C. G. King. **1950** W. H. Griffith. **1951** C. M. McCay. **1952** Paul L. Day.

1953 C. A. Elvehjem. **1954** G. R. Cowgill. **1955** W. H. Sebrell, Jr. **1956** H. J. Deuel, Jr. **1957** R. R. Williams. **1958** W. J. Darby.

Vice-Presidents—**1933** H. C. Sherman. **1934-1935** E. F. DuBois. **1936** Mary S. Rose. **1937** E. V. McCollum. **1938—1939** T. M. Carpenter. **1940** A. G. Hogan. **1941** L. A. Maynard. **1942** H. B. Lewis. **1943** Icie G. Macy-Hoobler. **1944** W. C. Rose. **1945** A. H. Smith. **1946** R. M. Bethke. **1947** E. M. Nelson. **1948** C. G. King. **1949** W. H. Griffith. **1950** C. M. McCay. **1951** P. L. Day. **1952** C. A. Elvehjem. **1953** George R. Cowgill. **1954** W. H. Sebrell, Jr. **1955** H. J. Deuel, Jr. **1956** R. R. Williams. **1957** W. J. Darby. **1958** D. W. Woolley.

Secretaries—**1933** J. R. Murlin. **1934** Icie G. Macy. **1938** L. A. Maynard. **1941** A. H. Smith. **1945** H. E. Carter. **1948** J. H. Roe. **1951** J. M. Orten. **1954** R. W. Engel. **1957** G. M. Briggs.

Treasurers—**1933** J. R. Murlin. **1934** W. M. Boothby. **1935** G. R. Cowgill. **1940** W. H. Sebrell, Jr. **1944** E. M. Nelson. **1947** N. R. Ellis. **1950** N. B. Guerrant. **1953** O. L. Kline. **1956** J. B. Brown.

CONSTITUTION

1. The name of the Society is the "AMERICAN INSTITUTE OF NUTRITION."

2. The purposes of the Society are to the extension of the knowledge of nutrition and to facilitate personal contact between investigators in nutrition and closely related fields of interest.

3. The management of the American Institute of Nutrition shall be vested in a council consisting of the President, President-Elect, Past President, Secretary, Treasurer and three additional members.

BY-LAWS

ARTICLE I. *Membership*

SECTION 1. *Eligibility for membership.* Any person who has conducted and published meritorious original investigations in some phase of nutrition and who is presently professionally active in the field of nutrition shall be eligible for membership in the Society.

SECTION 2. *Nomination:* Nominations for membership shall be made and seconded by members of the Society on blanks furnished by the Secretary. Nominations shall be submitted to the Council who shall determine eligibility and make recommendation to the Society at a regular meeting.

SECTION 3. *Election to membership:* A. A nominee for membership may be voted for by ballot at any meeting of the Society after the Council has reported its findings on his eligibility. B. A majority of the ballots cast shall elect.

SECTION 4. *Forfeiture:* If a majority of the Council after due notice to the member in question and opportunity for a hearing, shall decide that the interests of the Society require the expulsion of a member, the Secretary shall send a notice of this decision to each member at least two weeks before the next annual meeting. At this meeting the Secretary shall, on behalf of the Council, propose the expulsion; and if two-thirds of the members present vote for it, the member shall be expelled, his assessment for the current year shall be returned to him, and he shall cease to be a member of the Society.

SECTION 5. *Fellows:* Active or retired members of the American Institute of Nutrition who have passed their sixty-fifth birthday and who have had a distinguished career in nutrition may be selected as Fellows of the Society. Such selection shall be made by a Fellows Committee of five members appointed by the incoming President. Nominations of candidates may be made to the Fellows Committee by any member of the Society. No more than three Fellows shall be selected each year (except that a maximum of ten may be selected the first year this provision is put into effect). A suitable citation shall accompany awarding of Fellowships at the annual meeting.

SECTION 6. *Honorary Members.* Distinguished individuals of any country who are not members of the American Institute of Nutrition and who have contributed to the advance of the science of nutrition shall be eligible for proposal as Honorary Members of the Society. Proposals for Honorary Members shall be made by at least two members of the Society to the Secretary in writing six weeks before the annual meeting with statements of their qualifications. The Council may, from the candidates so proposed, make nominations to the Society at the spring meeting. A two-thirds majority of the ballots cast shall elect. Honorary Members shall pay no membership fees but shall be eligible to subscribe to the official journal(s) at member's rates. They may attend the business sessions of the Institute but without voting privileges.

ARTICLE II. *Meetings and Quorum*

SECTION 1. *Annual:* The annual meeting of the Society shall be held on the date fixed by the Certificate of Incorporation.

SECTION 2. *Special:* A special meeting may be called at any time by the President, or in case of his absence or disability, by the President-Elect, and must be called at the request in writing of a majority of the Council or fifty members of the Society. Notice specifying the purpose of such meeting shall be mailed to each member at least ten days previous thereto. The Council shall select the places at which meetings shall be held.

SECTION 3. *Quorum:* Thirty members shall constitute a quorum at all meetings of the Society, but in the absence of a quorum any number shall be sufficient to adjourn to a fixed date.

ARTICLE III. *Officials*

SECTION 1. *Officers:* The officers, elected by members of the Society by majority vote, shall be a President, a President-Elect to be elected annually, and a Secretary and a Treasurer each of whom shall be elected to serve for a term of three years. Their terms of office shall commence on July 1 of the year in which they are elected. No person who has served as President is eligible for re-election as President-Elect.

SECTION 2. *Council:* The officers so elected, the Past President and three additional members, one of whom shall be elected at each annual meeting to serve a term of three years, shall constitute a Board of Trustees and shall be known as "The Council."

SECTION 3. *Duties of officers:* The powers and duties of the officers elected by the Society shall be such as usually devolve upon their respective positions.

ARTICLE IV. *The Council*

SECTION 1. *Powers:* The general management of the Society during the intervals between meetings shall be vested in the Council, which shall regularly perform the ordinary duties of an executive committee and possess all the powers conferred upon the Board of Trustees of an educational institution chartered by the Education Department of the University of the State of New York. A permanent charter was issued to the American Institute of Nutrition under date of November 16, 1934.

SECTION 2. *Reports:* The Council shall report to the Society its findings on the eligibility of candidates for membership, and on all charges of a violation of these By-Laws.

ARTICLE V. *Officer Nominating Committee and Elections*

SECTION 1. *Membership:* A. The Nominating Committee shall consist of five members appointed for the coming year by the retiring President. Members who have served on the Nominating Committee for two consecutive years shall be ineligible for reappointment until after a lapse of one year. B. The President shall designate one member to be Chairman of the Nominating Committee.

SECTION 2. *Nomination of officials:* A. The Nominating Committee shall make at least one nomination for each of the offices to be filled, for each of the additional positions on the Council to be filled, and for each of the positions on the Editorial Board to be filled at the time of the annual meeting. Any member of the Institute may submit nominations to the Nominating Committee for its consideration along with those nominations made by the members of the Nominating Committee. B. The nominations by the Nominating Committee shall be transmitted to the Secretary at least six weeks before the annual meeting at which they are to be considered. C. The Secretary shall send to every member, at least two weeks before the annual meeting, a printed ballot containing the list of nominees and space for such additional names as the member wishes to propose, and at the same time shall notify the members that they may vote by mail, returning to the Secretary the marked ballot in the envelope provided, at such a time and place as the Secretary may designate, or the ballot may be delivered to the Secretary at the beginning of the business session at which the elections are to take place.

SECTION 3. *Election of officials:* A. At the beginning of the business session the Secretary shall present to the tellers, appointed by the President, the ballots submitted by the members and the ballots shall be counted forthwith. B. A majority of votes cast shall be necessary to elect an official.

SECTION 4. *Filling of vacancies:* A. Should a vacancy occur in any elective position, the Council, by majority vote, shall have the power to appoint a member of the Society to fill the unexpired term until the following election. B. The President of the Society shall fill all vacancies in appointive positions.

ARTICLE VI. *Financial*

SECTION 1. *Dues:* The dues shall be the annual cost of subscription to The Journal of Nutrition for members plus an annual assessment which shall be determined by majority vote at the annual meetings, upon recommendation of the Council, and shall be due within a month after the annual meeting. A member on attaining the age of 65 may elect to be relieved from all financial obligations to the Institute including subscription to The Journal of Nutrition.

SECTION 2. *Expenditures:* No expenditures from the general funds of the Society except those required in the performance of the ordinary official duties shall be made except by vote of the Society or the Council.

SECTION 3. *Penalty for non-payment of dues:* A. Members in arrears for dues for two consecutive years shall forfeit their membership. B. Delinquent members may be reinstated by the Council provided all indebtedness to the Society is liquidated.

SECTION 4. *Auditing Committee:* An Auditing Committee of two members, appointed for the coming year by the incoming President, should be responsible for auditing the records of the Treasurer and for submitting a written report at the next annual meeting. One member shall be designated as Chairman and members

are eligible for reappointment up to a total of three years.

ARTICLE VII. *The Journal of Nutrition*

SECTION 1. The American Institute of Nutrition designates *The Journal of Nutrition* as its official organ of publication.

SECTION 2. In accordance with the expressed wish of the Wistar Institute of Anatomy and Biology, owner and publisher of *The Journal of Nutrition,* the American Institute of Nutrition shall nominate members of the Editorial Board for its official organ. A. The editorial management of *The Journal of Nutrition* shall be vested in an Editorial Board consisting of an Editor and twelve Board Members. B. The Editor shall be chosen by the Editorial Board to serve a term of five years beginning July 1 of the year in which he is chosen, and shall be eligible for re-election. The Editor shall have the power to designate one of the Board Members to serve as his assistant, and such an appointee shall be called Associate Editor. C. Three members of the Institute shall be nominated by the Nominating Committee for membership on the Editorial Board each year to serve a term of four years, replacing three retiring members and taking office May 1 of the year in which they are elected. D. Retiring members of the Editorial Board shall not be eligible for renomination until one year after their retirement.

ARTICLE VIII. *Papers on Scientific Subjects*

SECTION 1. The Secretary shall be authorized to arrange programs for the scientific sessions at the annual meetings.

SECTION 2. The Council shall, from time to time, set the rules on the number of papers which may be presented or sponsored by a member, as necessitated by changing circumstances but with regard to equality of privilege for all members.

ARTICLE IX. *Changes in Constitution and By-Laws*

SECTION 1. Proposed changes in the Constitution and By-Laws must be sent in writing to the Secretary at least one month before the date of the meeting at which they are to be considered, and must be signed by at least three members. The Secretary shall send a printed copy of any proposed change to each member at least two weeks before the next meeting and shall notify all members that they may vote by proxy.

SECTION 2. If at this meeting two-thirds of the votes cast shall favor the proposed change, it shall be made.

THE AMERICAN ASSOCIATION OF IMMUNOLOGISTS

Founded June 19, 1913; Member of Federation 1942

OFFICERS, 1959–1960

President—W. C. Boyd, Boston University School of Medicine, Boston, Massachusetts.

Honorary President—A. F. Coca, Oradell, New Jersey.

Vice-President—A. H. Coons, Harvard University Medical School, Boston, Massachusetts.

Secretary-Treasurer—Calderon Howe, Columbia University College of Physicians & Surgeons, New York City.

Council—W. C. Boyd, A. F. Coca, A. H. Coons, Rebecca Lancefield, Werner Henle, F. S. Cheever, J. Y. Sugg, Harry Eagle.

REPRESENTATIVES TO OTHER ORGANIZATIONS

National Research Council—Division of Medical Sciences, C. P. Miller.

American Association for the Advancement of Science—Lawrence Kilham, D. T. Smith.

Eli Lilly Award Committee (Joint with Society of American Bacteriologists)—*Nominations:* Sidney Raffel; *Awards:* S. S. Elberg.

Editorial Board, Journal of Immunology

J. Y. Sugg (1963), *Editor-in-Chief;* Jules Freund (1959), Geoffrey Edsall (1959), W. C. Boyd (1961), C. M. MacLeod (1961), Werner Henle (1962), F. L. Horsfall, Jr. (1962).

PAST OFFICERS

Presidents—**1913** G. B. Webb. **1915** J. W. Jobling. **1916** Richard Weil. **1917** J. A. Kolmer. **1918** W. H. Park. **1919** Hans Zinsser. **1920** R. I. Cole. **1921** F. P. Gay. **1922** G. W. McCoy. **1923** H. G. Wells. **1924** F. G. Novy. **1925** W. H. Manwaring. **1926** Ludvig Hektoen. **1927** Karl Landsteiner. **1928** E. L. Opie. **1929** O. T. Avery. **1930** Stanhope Bayne-Jones. **1931** A. R. Dochez. **1932** A. B. Wadsworth. **1933** T. M. Rivers. **1934** F. G. Blake. **1935** W. T. Longcope. **1936** S. B. Hooker. **1937** Carl Ten-Broeck. **1938** D. T. Fraser. **1939** G. P. Berry. **1940** P. R. Cannon. **1941** K. F. Meyer. **1942–1945** J. J. Bronfenbrenner. **1945–1947** Michael Heidelberger. **1947** L. D. Felton. **1948** Michael Heidelberger. **1949** Thomas Francis, Jr. **1950** Geoffrey Edsall. **1951** C. M. MacLeod. **1952** J. F. Enders. **1953** T. P. Magill. **1954** A. M. Pappenheimer, Jr. **1955** Jules Freund. **1956** M. W. Chase. **1957** J. H. Dingle. **1958** J. E. Smadel.

Vice-Presidents—**1913–1915** G. W. Ross. **1915** G. P. Sanborn. **1916** J. A. Kolmer. **1947** Michael Heidelberger. **1948** L. D. Felton. **1949** Michael Heidelberger. **1950** C. M. MacLeod. **1951** J. F. Enders. **1952** T. P. Magill. **1953** A. M. Pappenheimer, Jr. **1954** Jules Freund. **1955** M. W. Chase. **1956** J. H. Dingle. **1957** J. E. Smadel. **1958** W. C. Boyd.

Secretary—**1913–1918** M. J. Synott. **1946–1947** A. F. Coca.

Treasurer—**1913–1918** W. J. Stone. **1946–1947** A. J. Weil.

Secretary-Treasurer—**1918–1945** A. F. Coca. **1948–1950** Jules Freund. **1951–1953** J. Y. Sugg. **1954–1958** F. S. Cheever. **1958** Calderon Howe.

CONSTITUTION

(As revised, 1949)

ARTICLE I. *Name*

This association shall be called THE AMERICAN ASSOCIATION OF IMMUNOLOGISTS.

ARTICLE II. *Object*

The purpose of the Association shall be to advance knowledge of immunology and related disciplines, and to facilitate interchange of ideas and information among investigators in the various fields.

ARTICLE III. *Members*

SECTION 1. The Association shall consist of active members, members emeriti and honorary members.

SECTION 2. Any qualified person engaged in the study of problems related to the purpose of the Association may apply for active membership. Candidates for active membership shall be nominated by two members of the Association on blanks furnished by the Secretary. Applications must be accompanied by letters of recommendation of the sponsors, a curriculum vitae, and a list of reprints of publications. The Council shall determine eligibility and post a list of candidates at the annual meeting. The membership shall elect new members by majority vote.

SECTION 3. Failure to pay dues for three successive years shall annul membership. The Council may reinstate a member if an acceptable explanation is submitted and all indebtedness to the Association is liquidated. Payment of such indebtedness may be waived by unani-

mous vote of the Council if circumstances justify such action.

SECTION 4. If a two-thirds majority of the Council decides that the best interests of the Association require the expulsion of a member, the Secretary shall notify the affected member in writing of the charges. The Council shall allow a reasonable time for the presentation of his defense before acting. Upon recommendation of a two-thirds majority of the Council, the Secretary shall send a notice of the decision to each active member at least six weeks before the next annual meeting. At this meeting the Secretary shall, on behalf of the Council, propose the expulsion; and on a two-thirds vote of the members present, the member shall be expelled, his assessment for the current year shall be returned, and he shall cease to be a member of the Association.

SECTION 5. An active member of the Association for twenty years upon retirement because of age or disability, may elect to accept the status of member emeritus. As such he shall retain voting privileges but shall be relieved of all financial obligations to the Association and shall not receive the Journal without payment.

SECTION 6. The Council may nominate for honorary membership persons of extraordinary achievement in the field of endeavor of this Association. Election to honorary membership shall follow the same procedure as that for election for office in the Association, and the Secretary, on order of the Council, shall place nominations for honorary membership on the annual ballot.

ARTICLE IV. *Officers*

SECTION 1. The Association shall be governed by a Council, which shall consist of the Officers of the Association and five Councilors, one of whom shall be the Editor-in-Chief of the Journal of Immunology.

SECTION 2. The Officers of the Association shall be a President, a Vice President, a Secretary, and a Treasurer. The duties of the two latter may be performed by one or two individuals as determined by vote of the Association. (See By-Law # 7.)

SECTION 3. The President, the Vice President, the Secretary, and the Treasurer shall be elected at the regular annual meeting of the Association to serve for one year. Only the Secretary and the Treasurer are eligible to serve for successive terms in their respective offices. The term of office shall begin the day after the end of the annual meeting.

SECTION 4. One Councilor shall be elected each year to serve for a term of four years. He may however serve in any other elective office immediately after expiration of his term as Councilor.

SECTION 5. The President shall appoint a Nominating Committee of three (or more) members not currently serving on the Council of the Association and shall designate the Chairman. The Committee shall submit nominations for the offices of President, Vice President, Secretary, Treasurer, and Councilor. They may nominate the member currently serving as Vice President for the office of President, and the Councilor who is serving his fourth year for the office of Vice President. They shall submit the names of three members of the Association as candidates for the office of Councilor for a four-year term. The Nominating Committee shall confer at least three months before the annual meeting and shall transmit its nominations, over the signatures of the majority of the Committee, to the Secretary at least two months before the annual meeting. Other names may be added to the ballot upon petition of at least twenty-five members of the Association to the Secretary at least two months before the annual meeting. The Secretary shall send to each member of the Association, at least six weeks before the annual meeting, a ballot containing the list of all such nominees.

SECTION 6. The members of the Association shall vote on the nominations by secret ballot by mail. All ballots must be in the hands of the Secretary one week before the annual meeting. At the time of the annual meeting the Secretary shall present all the valid sealed ballots received by him to the tellers appointed by the President. A plurality of votes shall be sufficient for election.

SECTION 7. The Vice President shall substitute for the President when necessary. If both the President and Vice President are unable to serve, the senior Councilor shall temporarily assume the duties of President. Should a vacancy occur in the office of Secretary or Treasurer, or Councilor, the Council by a majority vote shall appoint a member to fill the unexpired term until the following election. In the event of a vacancy in the Council, the members shall in the following election choose two Councilors from among six nominees whose names shall be selected by the Nominating Committee and included on the ballot as above. Moreover, in this event the terms of the four Councilors shall be adjusted so as to provide an orderly progression within the general sense of the Constitution.

ARTICLE V. *Meetings*

SECTION 1. A regular meeting of the Association shall be held annually at such time and place as the Council shall determine. Regular meetings shall be open to all members of the Association. The members present at the annual meeting of the Association shall constitute a quorum.

SECTION 2. A meeting of the Council shall be held prior to the annual business meeting of the Association. A quorum of the Council for this meeting shall be five.

SECTION 3. In case of equal division of votes, the President shall cast the decisive ballot.

SECTION 4. Minutes of the annual meeting

of the Council and of the annual business meeting of the Association shall be published in the form of a news-letter and be distributed only to members of the Association. The annual report of the Treasurer shall be included in this newsletter.

ARTICLE VI. *Business*

SECTION 1. The fiscal year of the Association shall begin March first.

SECTION 2. Annual dues, upon recommendation of the Council, shall be determined by a majority vote at the annual meeting of the Association.

ARTICLE VII. *Publication*

SECTION 1. The Journal of Immunology, which is the property and official organ of this Association, shall be administered for the Association by an Editorial Board.

SECTION 2. An Editor-in-Chief shall be elected from the membership by a majority vote of the Council to serve for four years. His term of office shall be subject to renewal. He shall appoint with the consent of the Council an Editorial Board of four to six members to serve for four years. The Editor-in-Chief and the members of the Editorial Board shall be responsible for the editorial conduct of the Journal.

SECTION 3. The Editor-in-Chief shall, with the consent of the Council, appoint from the active members Associate Editors as needed. These Associate Editors are to be chosen because of their ability in specialized fields.

SECTION 4. The Editor-in-Chief shall make a report of his stewardship of the Journal at the annual meeting and in this report shall summarize the editorial situation and all matters dealing with finances. He shall submit to the Council statements relating to the number of manuscripts received, rejected, accepted, and published during the year; changes in editorial personnel of editors; a complete summary of circulation and of finances and of any other information which the Editorial Board may feel to be pertinent or which may be required by the Council.

ARTICLE VIII. *Amendments*

SECTION 1. Proposed changes in the Constitution shall be submitted by at least five members in writing through the Secretary to the President. The President shall then appoint a committee of at least three members which shall communicate its recommendations to the President for consideration by the Council. The Council shall then advise the Secretary to submit the recommendations of the committee to the membership of the Association for approval with the annual ballot. A change in the Constitution shall require a two-thirds majority of the votes cast by the members at the annual meeting and shall require confirmation by a majority in a mail vote in which at least 50% shall have participated.

SECTION 2. As an alternative procedure a proposed change in the Constitution may be submitted directly to the Council by petition of one-tenth of the total active membership. Under this circumstance the Council is required to arrange for a vote by the members as heretofore described.

SECTION 3. Proposed changes in By-Laws may be adopted by two-thirds vote of members present at the annual meeting.

BY-LAWS

1. The Past Presidents shall have the right of attending, without vote, the meetings of the Council.

2. The President may appoint a Past President or a Past Councilor as pro tempore Councilor at any stated meeting of the Council at which a quorum is not present.

3. The Council may transact and vote by mail on such business as cannot be conveniently transacted at meetings.

4. The Secretary shall arrange the program for the scientific meetings, with the advice of the other officers of the Association. Any member in good standing shall have the right to submit a paper. The privilege of presentation may be extended to non-members upon recommendation of active members. Papers intended for presentation at the meetings shall conform to the standards of the Journal of Immunology. In case of doubt, the Secretary shall have the right to submit papers to the scrutiny of three or more members of the Editorial Board of the Journal of Immunology whose decision shall be final.

5. Each member who signifies his intention of reading a paper at any session may specify the length of time which its presentation shall require. In the absence of any specification of time required not more than ten minutes shall be allotted for the reading of any one paper. The time alloted shall be printed on the official program, and the presiding officer shall have no authority to extend it unless a majority of the members present signify their wish to the contrary.

6. If by force of circumstances it should be impossible to hold the annual meeting, the election of Officers and Council may be carried out entirely by mail.

7. The offices of Secretary and Treasurer are combined and shall be held by one person.

8. Official or invited addresses presented at the annual meeting shall be given immediate priority in publication, unless the Editor-in-Chief shall be otherwise instructed by majority vote of the Council.

9. Dues are payable on or before January 1st and subscriptions to the Journal will be lapsed if not paid by this date.

10. If the Editor-in-Chief is unable to attend the stated meeting of the Council, he may designate an alternate from the membership of the Editorial Board.

ALPHABETICAL LIST OF MEMBERS OF THE SIX SOCIETIES[1]

(1) The American Physiological Society
(2) The American Society of Biological Chemists
(3) The American Society for Pharmacology and Experimental Therapeutics
(4) The American Society for Experimental Pathology
(5) The American Institute of Nutrition
(6) The American Association of Immunologists

Number and year in parentheses following each name indicate Society affiliation and year of election H signifies honorary member; R signifies retired status

AAES–JORGENSEN, ERIK, Ph.D. Polytechnic Inst., Dept. of Biochem. and Nutrition, Copenhagen, Denmark. *Lect.* (5, 1958)

ABBOTT, LYNN D. F., JR., Ph.D. Med. Coll. of Virginia, Richmond 19. *Prof. of Biochem.* (2, 1948)

ABELL, LIESE L., Ph.D. Columbia U. Res. Serv., Goldwater Mem. Hosp., Welfare Is., New York 17. *Asst. Prof., Biochem., Columbia U.* (2, 1957)

ABOOD, LEO G., Ph.D. U. of Illinois Coll. of Med., Dept. Psychiatry, Chicago 12. *Assoc. Prof. Biochem. and Neurophysiol.* (1, 1951)

ABRAHAM, SAMUEL, Ph.D. U. of California, Physiol. Dept., Berkeley 4. *Assoc. Research Physiologist.* (2, 1956)

ABRAMS, ADOLPH, Ph.D. U. of Colorado Sch. of Med., Denver 20. *Asst. Prof. of Biochem.* (2, 1955)

ABRAMS, RICHARD, Ph.D. Montefiore Hosp., Inst. of Research, Pittsburgh 13, Pa. *Dir.* (2, 1953)

ABRAMSON, DAVID I., M.D. U. of Illinois, Dept. of Physical Med., Chicago 12. *Prof. and Head of Dept.* (1, 1937)

ABRAMSON, HAROLD A., M.D. Biological Lab., Cold Spring Harbor, N.Y. *Research Psychiatrist* (1, 1930; 2, 1934)

ABREU, BENEDICT E., Ph.D., M.D. Pitman-Moore Co., Indianapolis 6, Ind. *Assoc. Research Dir.* (3, 1941)

ACHESON, GEORGE H., M.D. U. of Cincinnati Coll. of Med., Cincinnati 19, Ohio. *Prof. of Pharmacol.* (3, 1945)

ACHOR, LEONARD B., Ph.D., M.D. Merck Inst. for Therap. Research, Rahway, N.J. *Research Assoc.* (3, 1957)

ACKERMAN, CLEMENS J., Ph. D. Virginia Polytechnic Inst., Dept. of Biochem. and Nutrition, Blacksburg. *Assoc. Prof.* (5, 1959)

ACKERMANN, W. WILBUR, Ph.D. 116 N. State St., Ann Arbor, Mich. *Assoc. Prof. of Epidemiol., U. of Michigan.* (2, 1952; 6, 1953)

ADAMS, ELIJAH, M.D. St. Louis U. Sch. of Med., Dept. of Pharmacol., St. Louis, Mo. *Prof. and Dir.* (2, 1954; 3, 1959)

ADAMS, GEORGIAN, D.Sc. USDA, State Expt. Stations Div., ARS, Washington 25, D.C. *Agric. Admin.* (5, 1946)

ADAMS, JOHN M., M.D., Ph.D. U. of California, 405 Hilgard Ave., Los Angeles 24. *Prof. and Chmn. of Pediatrics.* (4, 1947)

ADAMS, MILDRED, Ph.D. USDA, Human Nutrition Research Div., Beltsville, Md. *Chief, Exptl. Nutrition Lab.* (2, 1934)

ADAMS, W. LLOYD, Ph.D., M.D. 900 First Natl. Bank Bldg., Lexington, Ky. *Ophthalmologist.* (3, 1942)

ADAMS, WRIGHT R., M.D. U. of Chicago, Dept. of Med., Chicago 37, Ill. *Prof. and Chmn. of Dept.* (1, 1946)

ADDISON, WILLIAM H., M.D. U. of Pennsylvania, Philadelphia. *Prof. Emer. of Histol. and Embryol.* (1R, 1928)

ADELMAN, WILLIAM J., JR., Ph.D. Natl. Inst. of Neurol. Diseases & Blindness, Lab. of Biophysics, NIH, Bethesda 14, Md. (1, 1958)

ADES, HARLOW WHITING, Ph.D. USN Sch. of Aviation Med., Pensacola NAS, Fla. *Head, Dept. Neurophysiol. & Acoustics.* (1, 1953)

ADEY, W. R., M.D. U. of California Med. Ctr., Los Angeles 24. (1, 1955)

ADLER, FRANK L., Ph.D. Public Health Research Inst. of City of New York, Foot of E. 15th St., New York City 9. *Assoc. Member.* (6, 1953)

ADLER, HARRY F., Ph.D., M.D. 274 W. Ware Blvd., San Antonio 21, Tex. (1, 1943)

ADLER, TERRINE K., Ph.D. U. of California Med. Ctr., San Francisco 22. *Asst. Research Pharmacologist.* (3, 1954)

ADOLPH, EDWARD FREDERICK, Ph.D. U. of Rochester Med. Ctr., Rochester 20, N.Y. *Prof. of Physiol.* (1, 1921)

ADRIAN, E. D. Cambridge U., Trinity Coll., Cambridge, England. (1H, 1946)

AGRANOFF, BERNARD W., M.D. Natl. Inst. of Neurol. Diseases & Blindness, NIH, Bethesda 14, Md. *Surgeon, PHS.* (2, 1959)

AGRESS, CLARENCE M., M.D. U. of California, Los Angeles. *Assoc. Clin. Prof. of Med.* (1, 1955)

AHLQUIST, RAYMOND P., Ph.D. Med. Coll. of Georgia, Dept. of Pharmacol., Augusta. *Prof. and Chmn. of Dept.* (1, 1952; 3, 1945)

[1]Includes changes received up to July 1, 1959.

AHRENS, EDWARD H., JR., M.D. Rockefeller Inst. for Med. Research, New York City 21. *Assoc. Prof.* (2, 1956; 5, 1959)

AJAZZI-MANCINI, MARIO, M.D. U. of Firenze, Dept. of Pharmacol., Viale G. B. Morgagni 65, Firenze, Italy. *Dir. of Pharmacol.* (3, 1951)

AJMONE-MARSAN, COSIMO, M.D. Natl. Inst. of Neurological Diseases & Blindness, NIH, Bethesda 14, Md. *Chief, Br. of EEG.* (1, 1956)

AKERS, ROBERT P., Ph.D. Natl. Heart Inst., NIH, Bethesda 14, Md. *Research Physiologist.* (1, 1955)

AKERT, KONRAD, M.D. U. of Wisconsin, Serv. Mem. Insts., Madison. *Assoc. Prof. of Physiol.* (1, 1957)

ALADJEM, FREDERICK, Ph.D. U. of Southern California Sch. of Med., Los Angeles 7. *Asst. Prof. of Med. Microbiol.* (6, 1957)

ALBANESE, ANTHONY A., Ph.D. St. Luke's Convalescent Hosp., Nutritional Research Lab., Greenwich, Conn. *Dir. of Research.* (2, 1944)

ALBAUM, HARRY G., Ph.D. Brooklyn Coll., Brooklyn 10, N.Y. *Prof. of Biol.* (2, 1947)

ALBERT, A., Ph.D., M.D. Mayo Clinic, Rochester, Minn. *Head, Endocrinol. Lab.; Prof. of Physiol., Mayo Fndn.* (1, 1947)

ALBERTY, ROBERT A., Ph.D. U. of Wisconsin, Dept. of Chem., Madison 6. *Prof.* (2, 1956)

ALBRITTON, ERRETT C., M.D. Div. of Research Grants, NIH, Bethesda 14, Md. *Research Prog. Analyst.* (1R, 1933)

ALDEN, ROLAND H., Ph.D. U. of Tennessee, Med. Units, Div. of Anatomy, Memphis 3. *Prof. and Chief of Div.* (1, 1949)

ALDERTON, GORDON, M.S. USDA, Western Regional Research Lab., Albany 10, Calif. *Chemist.* (2, 1952)

ALEXANDER, BENJAMIN, M.D. Beth Israel Hosp., Boston, Mass. *Assoc. Dir., Med. Serv.; Assoc. Prof. of Med., Harvard Med. Sch.* (2, 1951)

ALEXANDER, GEORGE J., Ph.D. 722 W. 168th St., New York City 32. *Assoc. in Biochem., Columbia U.* (2, 1959)

ALEXANDER, NATALIE, Ph.D. 816 So. Ogden Dr., Los Angeles, Calif. *Asst. Prof., Dept. of Physiol., U. of Southern California.* (1, 1958)

ALEXANDER, ROBERT S., Ph.D. Albany Med. Coll., Dept. of Physiol., Albany 8, N. Y. *Prof. and Chmn. of Dept.* (1, 1946)

ALFIN-SLATER, ROSLYN B., Ph.D. U. of California, Dept. of Home Econ., Los Angeles 24. *Assoc. Prof.* (2, 1952; 5, 1955)

ALFREDSON, B. V., D.V.M. Michigan State U., Dept. of Physiol. and Pharmacol., East Lansing. *Prof. and Head of Dept.* (1, 1951)

ALIVISATOS, S. G. A., M.D., Ph.D. Mt. Sinai Med. Res. Fndn., Dept. Biochem. Res., Chicago 8, Ill. *Head; Res. Asst. Prof., Path., Chicago Med.* (2, 1958)

ALLAN, FRANK N., M.D. Lahey Clinic, 605 Commonwealth Ave., Boston, Mass. *Exec. Dir. of Med. Dept.* (4, 1930)

ALLEN, CHARLES ROBERT, Ph.D., M.D. U. of Texas Sch. of Med., Dept. of Anesthesiol., Galveston. *Prof. and Chmn.* (1, 1943)

ALLEN, FRANK W., Ph.D. U. of California Sch. of Med., 960 Med. Sci. Bldg., San Francisco. *Prof. of Biochem.* (2, 1947)

ALLEN, FREDERICK M., M.D. 1031 Fifth Ave., New York City 28. (1R, 1924; 4, prior to 1920)

ALLEN, J. GARROTT, M.D. Stanford U. Sch. of Med., Stanford, Calif. *Prof. and Exec., Dept. of Surgery.* (1, 1943)

ALLEN, LANE, Ph.D., M.D. Med. Coll. of Georgia, University Place, Augusta. *Prof. of Gross Anatomy.* (1, 1939)

ALLEN, SHANNON C., Ph.D. Chicago Coll. of Osteopathy, Dept. of Physiol., Chicago 15, Ill. *Assoc. Prof.* (1, 1945)

ALLEN, THOMAS H., Ph.D. USA Med. Res. and Nutrition Lab., Fitzsimons Army Hosp., Denver 30, Colo. *Chief, Physiol. Div.* (1, 1947)

ALLEN, WILLARD M., M.D. Washington U. Sch. of Med., St. Louis 10, Mo. *Prof. of Obstetrics and Gynecol.* (1, 1934)

ALLES, GORDON A., Ph.D. 770 S. Arroyo Pkwy., Pasadena 2, Calif. *Prof. of Pharmacol. in Res., UCLA Sch. of Med.* (1, 1932; 3, 1941)

ALLFREY, VINCENT G., Ph.D. 54 Heather Hill Rd., Cresskill, N. J. *Assoc. Prof., Rockefeller Inst.* (2, 1959)

ALLING, ERIC L., M.D. U. of Rochester Sch. of Med. and Dent., Rochester 20, N. Y. *Assoc. in Med.; Assoc. in Radiation-Biol.* (4, 1947)

ALLISON, JAMES B., Ph.D. Rutgers, The State U., New Brunswick, N. J. *Prof. of Physiol. & Biochem.; Dir., Bur. of Biol. Res.* (2, 1946; 5, 1949)

ALMQUIST, HERMAN J., Ph.D., D.Sc. The Grange Co., Modesto, Calif. *Dir. of Research and Vice-Pres.* (2, 1937; 5, 1937)

ALPEN, EDWARD L., Ph.D. U. S. Naval Radiol. Defense Lab., San Francisco 24, Calif. *Head, Biol. and Med. Sciences Div.* (1, 1955)

ALPERT, NORMAN R., Ph.D. U. of Illinois Coll. of Med., Dept. of Physiol., Chicago 12. *Assoc. Prof.* (1, 1958)

ALTAMIRANO, MARIO, M.D. Universidad de Chile, Instituto de Fisiologia, Santiago, Chile. *Asst. Prof. of Physiol.* (1, 1955)

ALTLAND, PAUL D., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Physiologist.* (1, 1950)

ALTMAN, KURT I., M.D. U. of Rochester Sch. of Med. and Dent., Dept. Radiation Biol., Rochester 20, N. Y. *Scientist, AEC; Assoc. in Radiol.* (2, 1958)

ALTSCHUL, AARON M., Ph.D. USDA, Box 7307, New Orleans 19, La. *Prin. Chem., Seed Protein Pioneering Res. Lab.* (2, 1949)

ALTSHULER, CHARLES H., M.D. St. Joseph's Hosp., Milwaukee, Wis. *Pathologist.* (4, 1956)

ALTSZULER, NORMAN, Ph.D. New York U. Coll. of Med., Dept. of Pharmacol., New York City 16. *Asst. Prof.* (1, 1958)

ALVAREZ, WALTER C., M.D. 700 N. Michigan Ave., Chicago 11, Ill. (1R, 1917; 3R, 1921)

ALVING, ALF SVEN, M.D. Billings Hosp., U. of Chicago, Chicago 37, Ill. *Prof. of Med.* (1, 1939)

ALVORD, ELLSWORTH C., JR., M.D. Baylor U. Coll. of Med., Houston, Tex. *Assoc. Prof. of Neurol. and Pathol.* (4, 1956)

AMASSIAN, VAHE EUGENE, M.B., B.Ch. Albert Einstein Coll. of Med., New York City 61. *Prof. of Physiol.* (1, 1953)

AMBERG, SAMUEL, M.D. Mayo Clinic, Rochester, Minn. *Assoc. Prof. Emer. of Pediatrics, Mayo Fndn.* (1R, 1903; 2R, 1906; 3R, 1909)

AMBERSON, WILLIAM R., Ph.D. Marine Biol. Lab., Woods Hole, Mass. *Investigator.* (1, 1924)

AMBROSE, ANTHONY M., Ph.D. USA Environ. Health Lab., Army Med. Serv., Army Chemical Center, Md. *Chief, Toxicol. Div.* (3, 1937)

AMBRUS, CLARA M., M.D., Ph.D. Roswell Pk. Mem. Inst., Buffalo, N.Y. *Asst. Prof. of Pharmacol., U. of Buffalo.* (1, 1957; 3, 1953)

AMBRUS, JULIAN L., M.D., Ph.D. Roswell Pk. Mem. Inst., Buffalo, N.Y. *Prin. Cancer Res. Scientist, State of New York.* (1, 1957; 3, 1953)

AMES, BRUCE N., Ph.D. Natl. Inst. of Arthritis and Metabolic Diseases, NIH, Bethesda 14, Md. *Biochemist.* (2, 1957)

AMES, STANLEY R., Ph.D. Distillation Products Ind., Div. of Eastman Kodak Co., Rochester 3, N.Y. *Research Assoc.* (2, 1948)

ANCHEL, MARJORIE, Ph.D. New York Botanical Garden, Bronx Park, New York City 58. *Research Assoc.* (2, 1951)

ANDERSCH, MARIE A., Ph.D. University Hosp., Baltimore 1, Md. *Asst. Dir. of Lab.; Assoc. Prof. of Biochem. in Med.* (2, 1940)

ANDERSEN, DOROTHY H., M.D. Presbyterian Hosp., New York City 32. *Prof. of Pathol., Columbia U.* (4, 1935)

ANDERSON, CARL E., Ph.D. U. of North Carolina, Sch. of Med., Chapel Hill. *Assoc. Prof. of Biochem. & Asst. Dean.* (2, 1950)

ANDERSON, ELIZABETH P., Ph.D. Natl. Cancer Inst., NIH, Bethesda 14, Md. *Chemist, Leukemia Studies Sec.* (2, 1957)

ANDERSON, EVELYN, M.D., Ph.D. Natl. Inst. of Arthritis & Metabolic Diseases, NIH, Bethesda 14, Md. *Chief, Sec. of Endocrinol.* (1, 1934)

ANDERSON, HAMILTON H., M.D. U. of California Sch. of Med., Dept. of Pharmacol. and Exptl. Therap., San Francisco 22. *Prof.* (3, 1931)

ANDERSON, JAY O., Ph.D. Utah State U., Logan. *Assoc. Prof. of Poultry Husbandry.* (5, 1959)

ANDERSON, JOSEPH T., Ph.D. U. of Minnesota, Lab. of Physiol. Hygiene, Minneapolis 14. *Assoc. Prof.* (5, 1952)

ANDERSON, LAURENS, Ph.D. U. of Wisconsin, Dept. of Biochem., Madison 6. *Assoc. Prof.* (2, 1953)

ANDERSON, NORMAN G., Ph.D. Oak Ridge Natl. Lab., Biology Div., Oak Ridge, Tenn. *Biologist.* (1, 1954)

ANDERSON, ROBERT C., B.S. Lilly Research Labs., Eli Lilly & Co., Indianapolis 6, Ind. *Head, Dept. of Toxicol.* (3, 1954)

ANDERSON, RUBERT S., Ph.D. Directorate of Med. Research, Army Chemical Center, Md. (1, 1948)

ANDERSON, RUDOLPH J., Ph.D. 101 Cottage St., New Haven, Conn. *Prof. of Chem.* (2, 1915)

ANDERSON, W. A. D., M.D. U. of Miami Sch. of Med., Coral Gables 34, Fla. *Prof. of Pathol.* (4, 1941)

ANDERSON, WILLIAM E., M.A. Tolland St., Tolland, Conn. (2R, 1931; 5, 1933)

ANDERVONT, H. B., D.Sc. Natl. Cancer Inst., NIH, Bethesda 14, Md. *Chief, Lab. of Biol.* (4, 1939)

ANDRES, REUBIN, M.D. Baltimore City Hosps., Baltimore 24, Md. *Asst. Prof. Med & Environ. Med., Johns Hopkins; Asst. Prof. Med., U. Md.* (1, 1955)

ANDRESEN, RICHARD H., M.D. Presbyterian-St. Luke's Hosp., Chicago 12, Ill. *Research Assoc. in Pathol.* (4, 1957)

ANDREWS, JAMES C., Ph.D. Box 392, Conway, N.H. *Emer. Prof. of Biochem., U. of North Carolina Sch. of Med.* (2R, 1925)

ANDRUS, E. COWLES, M.D. Johns Hopkins Hosp., Baltimore 5, Md. *Assoc. Prof. of Med., Johns Hopkins U.* (1, 1925)

ANDRUS, STEPHEN B., M.D. Harvard Sch. of Public Health, Dept. of Nutrition, Boston 15, Mass. *Asst. Prof. of Pathol.* (4, 1956)

ANFINSEN, CHRISTIAN B., JR., Ph.D. Natl. Heart Inst., Lab. of Cellular Physiol. and Metab., NIH, Bethesda 14, Md. *Lab. Chief.* (2, 1946)

ANGELAKOS, EVANGELOS T., Ph.D. Boston U. Sch. of Med., Boston 18, Mass. *Asst. Prof. of Physiol.* (1, 1959)

ANGERER, CLIFFORD A., Ph.D. Ohio State U. Coll. of Med., Dept. of Physiol., Columbus 10. *Prof.* (1, 1943)

ANGEVINE, D. MURRAY, M.D. U. of Wisconsin Med. Sch., Madison 6. *Prof. of Pathol.* (4, 1940)

ANGRIST, ALFRED A., M.D. Albert Einstein Coll. of Med., Dept. of Pathol., New York City 61. *Prof. and Chmn.* (4, 1959)

ANKER, H. S., M.D., Ph.D. U. of Chicago, Dept. of Biochem., Chicago 37, Ill. *Prof.* (2, 1949)

ANNEGERS, JOHN H., Ph.D., M.D. Northwestern U. Med. Sch., Dept. of Physiol., Chicago 11, Ill. *Assoc. Prof.* (1, 1949)

ANSBACHER, STEFAN, Sc.D. Jocinah Farms, R.R. 1, Marion, Ind. *Sci. and Med. Consultant.* (2, 1939)

ANSLOW, W. PARKER, JR., Ph.D. U. of Virginia Sch. of Med., Dept. of Physiol., Charlottesville. *Prof. and Chmn. of Dept.* (1, 1955; 2, 1948)

ANSON, MORTIMER L., Ph.D. 100 Eaton Sq., London S.W. 1, England. (2, 1937)

ANTOPOL, WILLIAM, M.D. Beth Israel Hosp., 10 Livingston Pl., New York City 3. *Dir. Research, Joseph H. Levy Fndn.* (4, 1953)

APOSHIAN, H. VASKEN, Ph.D. Stanford U. Sch. of Med., Dept. of Biochem., Stanford, Calif. (3, 1958)

APPERLY, FRANK L., D.Sc., M.D. Med. Coll. of Virginia, Richmond 19. *Emer. Prof. of Pathol.* (4, 1936)

APRISON, MORRIS H., Ph.D. Indiana U. Med. Ctr., Inst. of Psychiatric Res. and Psychiat. Dept., Indianapolis. *Asst. Prof. of Biochem.* (1, 1955)

APTEKMAN, PAUL MYRON, Ph.D. The Wistar Inst., Philadelphia 4, Pa. *Curator of Museum; Fellow in Chem.* (6, 1953)

ARCHDEACON, JAMES W., Ph.D. U. of Kentucky, Dept. of Anatomy and Physiol., Lexington. *Prof.* (1, 1955)

ARCHIBALD, REGINALD M., Ph.D., M.D. Rockefeller Hosp., New York City 21. *Member, Prof. and Sr. Physician, Rockefeller Inst.* (2, 1947)

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Chmn. (2, 1951)

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ARMSTRONG, W. D., M.D., Ph.D. U. of Minnesota Med. Sch., Dept. of Physiol. Chem., Minneapolis 14. *Prof. and Head.* (1, 1955; 2, 1938)

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ASCHAM, LEAH, Ph.D. Kansas State U., Manhattan. *Prof. Emer. in Sch. of Home Economics.* (5R, 1935)

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BARTLETT, ROSCOE G., JR., Ph.D. Naval Sch. of Aviation Med., Naval Air Sta., Pensacola, Fla. (1, 1956)

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BASS, DAVID E., Ph.D. QM Research & Engin. Ctr., Natick, Mass. *Chief, Physiol. Br.; Assoc. Prof. Physiol., Boston U.* (1, 1955)

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BENFEY, BRUNO GEORGE, M.D. McGill U., Dept. of Pharmacol., Montreal, Canada. (3, 1958)

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BEST, C. H., M.D., D.Sc. U. of Toronto, Toronto, Canada. *Dir., Banting & Best Dept. of Med. Res. & Dept. of Physiol.* (1, 1923; 2, 1923; 5, 1959)

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BLACK, EDGAR C., Ph.D. U. of British Columbia, Dept. of Physiol., Vancouver, Canada. *Prof. of Physiol.* (1, 1943)

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BLAKEMORE, WILLIAM STEPHEN, M.D. U. of Pennsylvania Sch. of Med., Philadelphia 4. *Asst. Prof. of Surgery.* (1, 1957)

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COHN, MELVIN, Ph.D. Stanford U. Sch. of Med., Dept. of Biochem., Stanford, Calif. *Prof.* (2, 1955)

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COLE, ROGER DAVID, Ph.D. U. of California, Berkeley 4. *Asst. Prof. of Biochem.* (2, 1958)

COLE, RUFUS, M.D., D.Sc. Mount Kisco, N.Y. *Member Emer., Rockefeller Inst. for Med. Research.* (4R, 1924; 6R, 1917)

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COLOVOS, NICHOLAS F., M.S. U. of New Hampshire, Durham. *Assoc. Prof., Dairy Sci.; Animal Nutritionist, Agric. Expt. Sta.* (5, 1959)

COLOWICK, SIDNEY P., Ph.D. Vanderbilt U. Sch. of Med., Nashville 5, Tenn. *Prof. of Microbiol.* (2, 1944)

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CURNEN, EDWARD C., M.D. U. of North Carolina Sch. of Med., Dept. of Pediatrics, Chapel Hill. *Prof. and Chmn. of Dept.* (6, 1941)

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GORINI, LUIGI, Ph.D. Harvard Med. Sch., Dept. of Bacteriol., Boston 15, Mass. *Lect.* (2, 1958)

GORTNER, ROSS AIKEN, JR., Ph.D. Wesleyan U., Shanklin Lab., Middletown, Conn. *Prof. of Biochem.* (5, 1947)

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GOSS, HAROLD, Ph.D. U. of California Coll. of Agric., Davis. *Prof. of Animal Husbandry.* (2, 1936; 5, 1933)

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GOTH, ANDRES, M.D. U. of Texas, Southwestern Med. Sch., Dept. of Pharmacol., Dallas 35. *Prof. and Head of Dept.* (3, 1947)

GOTS, JOSEPH S., Ph.D. U. of Pennsylvania Sch. of Med., Dept. of Microbiol., Philadelphia 4. *Assoc. Prof.* (2, 1959)

GOTTSCHALK, CARL W., M.D. U. of North Carolina Sch. of Med., Chapel Hill. *Assoc. Prof. of Med. and Physiol.* (1, 1956)

GOTTSHALL, RUSSELL Y., Ph.D. Michigan Dept. of Health, Div. of Labs., Lansing. *Bacteriologist.* (6, 1939)

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GOURLEY, DESMOND R. H., Ph.D. U. of Virginia Med. Sch., Dept. of Pharmacol., Charlottesville. *Assoc. Prof.* (1, 1951; 3, 1954)

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GRANT, RONALD, Ph.D. Stanford U., Dept. of Physiol., Stanford, Calif. *Prof.* (1, 1950)

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GREEN, HOWARD, M.D. New York Univ. Coll. of Med., New York City 16. *Asst. Prof. of Chem. Pathol.* (6, 1959)

GREEN, JACK PETER, Ph.D., M.D. Yale U. Sch. of Med., New Haven 11, Conn. *Asst. Prof. of Pharmacol.* (3, 1958)

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GREENBERG, G. ROBERT, Ph.D. U. of Michigan Med. Sch., Dept. of Biol. Chem., Ann Arbor. *Prof.* (2, 1952)

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GROUPE, VINCENT, Ph.D. Rutgers The State U., Inst. of Microbiol., New Brunswick, N.J. *Member, Prof. of Virol.* (6, 1946)

GRUBBS, ROBERT C., M.D. Ohio State U., Columbus. *Prof. and Vice Chmn. of Physiol.* (1, 1950)

GRUBER, CHARLES M., M.D., Ph.D. 1313 College Ave., Redlands, Calif. *Emer. Prof. of Pharmacol., Jefferson Med. Coll.* (1R, 1914; 3R, 1919)

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HALDI, JOHN, Ph.D. Emory U., Dept. of Physiol., Atlanta 22, Ga. *Prof.* (1, 1928)

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KRANTZ, JOHN C., JR., Ph.D. U. of Maryland Med. Sch., Baltimore 1. *Prof. of Pharmacol.* (3, 1937)

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KREEZER, GEORGE L., Ph.D. Washington U., St. Louis 5, Mo. *Prof. of Psychol.* (1, 1948)

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LUKENS, FRANCIS D. W., M.D. U. of Pennsylvania, 811 Maloney Clinic, Philadelphia 4. *Prof. of Med.* (1, 1938)

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MACHT, MARTIN B., Ph.D., M.D. U. of Cincinnati Coll. of Med., Cincinnati, Ohio. *Asst. Clin. Prof. of Med. and Asst. Prof., Physiol.* (1, 1948)

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MARKOWITZ, J., M.D., Ph.D., M.S.(Exptl. Surg.) U. of Toronto Sch. of Med., Toronto, Canada. *Prof. of Physiol.* (1, 1929)

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MITCHELL, HERSCHEL K., Ph.D. California Inst. of Technology, Biol. Div., Pasadena. *Prof.* (2, 1955)

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MITOMA, CHOZO, Ph.D. Stanford Research Inst., Dept. of Biol. Sciences., Menlo Park, Calif. (2, 1957)

MIXNER, JOHN PAULDING, Ph.D. Rutgers U. Dairy Res. Farm, Sussex, N. J. *Prof. of Dairy Husbandry; Res. Spec. in Dairy Husbandry.* (1, 1958)

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MOAT, ALBERT G., Ph.D. Hahnemann Med. Coll., Philadelphia 2, Pa. *Assoc. Prof. of Microbiol.* (2, 1959)

MODELL, WALTER, M.D. Cornell U. Med. Coll., New York City 21. *Assoc. Prof. of Pharmacol.* (3, 1944)

MOE, GORDON KENNETH, Ph.D., M.D. State U. of New York Sch. of Med., Dept. of Physiol., Syracuse. *Prof. and Head of Dept.* (1, 1952)

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MOLITOR, HANS, M.D. Merck Sharp & Dohme Research Labs., Rahway, N. J. *Dir., Sci. Relations.* (1, 1933; 3, 1942)

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MOLOMUT, NORMAN, Ph.D. Waldemar Med. Research Fndn., Port Washington, N. Y. *Dir. of Research.* (6, 1942)

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MONGE, CARLOS, D.Sc.(Hon.) Natl. Inst. of Andean Biol., Lima, Peru. *Dir., School of Advanced Studies.* (1H, 1952)

MONKHOUSE, FRANK C., Ph.D. U. of Toronto, Dept. of Physiol., Toronto, Canada. *Prof.* (1, 1955)

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MONTGOMERY, REX, Ph.D. State U. of Iowa, Dept. of Biochem., Iowa City. *Assoc. Prof.* (2, 1957)

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MOORE, CARL VERNON, M.D. Washington U. Sch. of Med., St. Louis, Mo. *Prof. of Med.* (4, 1938; 5, 1941)

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MOORE, JAMES C., M.D. U. of Louisville Sch. of Med., Louisville 2, Ky. *Assoc. Prof. of Physiol.* (1, 1957)

MOORE, LANE A., Ph.D. USDA, Dairy Cattle Research Br., Beltsville, Md. *Chief.* (5, 1940)

MOORE, RICHARD D., M.D. Western Reserve U. Inst. of Pathol., Cleveland 6, Ohio. (4, 1957)

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MORALES, MANUEL F., Ph.D. Dartmouth Med. Sch., Dept. of Biochem., Hanover, N. H. *Chmn. of Dept.* (1, 1950; 2, 1959)

MORAN, NEIL C., M.D. Emory U., Div. of Basic Health Sci., Dept. of Pharmacol., Atlanta 22, Ga. *Assoc. Prof.* (3, 1956)

MORAN, THOMAS J., M.D. U. of Pittsburgh Sch. of Med., Dept. of Pathol., Pittsburgh 13, Pa. *Prof.* (4, 1955)

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MORGAN, AGNES FAY, Ph.D. U. of California, Berkeley 4. *Prof. Emer. of Nutrition; Biochemist, Agric. Expt. Sta.* (2R, 1929; 5, 1933)

MORGAN, CHARLES F., Ph.D. Georgetown U. Sch. of Med. and Dent., Dept. of Physiol., Washington 7, D.C. *Prof. and Chmn.* (1, 1948; 3, 1947)

MORGAN, CLIFFORD T., Ph.D. Town Point, Cambridge, Md. (1, 1943)

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MOWRY, ROBERT W., M.D. U. of Alabama Med. Ctr., Dept. of Pathol., Birmingham. *Prof.* (4, 1959)

MOXON, A. L., Ph.D. Ohio Agric. Expt. Sta., Wooster. *Prof. & Assoc. Chmn., Animal Sci.; Prof., Animal Sci. & Biochem., State U.* (2, 1944; 5, 1959)

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MUDD, STUART, M.D. U. of Pennsylvania Sch. of Med., Philadelphia 4. *Prof. of Microbiol.* (1, 1921; 4, 1927; 6, 1927)

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MULLIGAN, RICHARD M., M.D. U. of Colorado Sch. of Med., Denver 20. *Prof. of Pathol.* (4, 1947)

MULLIN, F. J., Ph.D. Shimer Coll., Mount Carroll, Ill. *Pres.* (1, 1937)

MULLINS, L. J., Ph.D. Purdue U., Biophys. Lab., Lafayette, Ind. *Assoc. Prof. of Biophysics.* (1, 1952)

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MUNTWYLER, EDWARD, Ph.D. State U. of New York Coll. of Med., Brooklyn 3. *Prof. of Biochem.* (2, 1931)

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MURLIN, JOHN R., Ph.D. U. of Rochester Sch. of Med. and Dent., Rochester 20, N.Y. *Prof. Emer. of Physiol.* (1R, 1906; 2R, 1908; 5R, 1933)

MURPHY, GEORGE E., M.D. Cornell U. Med. Coll., New York City 21. *Assoc. Prof. of Pathol.* (4, 1954)

MURPHY, JOHN J., M.D. U. of Pennsylvania Sch. of Med., Philadelphia 4. *Assoc. in Urologic Surgery.* (4, 1959)

MURPHY, QUILLIAN R., M.D., Ph.D. U. of Wisconsin Med. Sch., Dept. of Physiol., Madison 6. *Prof.* (1, 1949)

MURRAY, EVERITT G. D., M.D., D.Sc. U. of Western Ontario, Dept. of Med. Research, London, Canada. *Research Prof.* (6, 1933)

MURRAY, F. JOSEPH, Ph.D. The Wm. S. Merrell Co., Lockland Sta., Cincinnati, Ohio. *Exec. Asst. to Vice-Pres. for Research.* (6, 1950)

MURRAY, RODERICK, M.D. Div. of Biologics Standards, NIH, Bethesda 14, Md. *Dir.* (6, 1958)

MURRAY, T. KEITH, Ph.D. Dept. of Health and Welfare, Ottawa, Canada. *Chemist.* (5, 1958)

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NELSON, DON H., M.D. Peter Bent Brigham Hosp., Boston 15, Mass. *Assoc. in Med.; Assoc. in Med., Harvard Med. Sch.* (1, 1959)

NELSON, DOROTHY, Ph.D. U. of Illinois Coll. of Med., Dept. of Clin. Sci., Chicago. *Research Assoc.* (1, 1956)

NELSON, ERIC L., Ph.D. U. of California, Dept. of Bacteriol., Los Angeles 24. (4, 1957)

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YATES, FRANCIS EUGENE, M.D. Harvard Med. Sch., Dept. of Physiol., Boston 15, Mass. *Asst. Prof. of Physiol.* (1, 1957)

YONKMAN, FREDRICK F., Ph.D., M.D., D.Sc. Ciba Pharmaceutical Products, Inc., Summit, N.J. *Vice-Pres. in charge of Research.* (3, 1931)

YOUMANS, GUY P., M.D., Ph.D. Northwestern U. Med. Sch., Dept. of Microbiol., Chicago, Ill. *Prof.*

and Head of Dept. (6, 1955)

YOUMANS, JOHN B., M.D. Army Med. Res. & Develop. Command, Main Navy Bldg., Washington 25, D.C. *Tech. Dir. of Research.* (5, 1948)

YOUMANS, WILLIAM BARTON, Ph.D., M.D. U. of Wisconsin Med. Sch., Dept. of Physiol., Madison 6. *Prof. and Chmn. of Dept.* (1, 1939; 3, 1949)

YOUNG, A. G., Ph.D., M.D. 510 Commonwealth Ave., Boston 15, Mass. (3, 1925)

YOUNG, ALLAN C., Ph.D. U. of Washington, Dept. of Physiol. and Biophysics, Seattle 5. *Assoc. Prof.* (1, 1952)

YOUNG, CHARLOTTE M., Ph.D. Cornell U. Grad. Sch. of Nutrition, Ithaca, N.Y. *Prof. of Med. Nutrition.* (5, 1956)

YOUNG, E. G., Ph.D. Natl. Research Council of Canada, Atlantic Regional Lab., Halifax, Canada. *Dir.* (2, 1925)

YOUNG, JOSEPH M., M.D. Kennedy VA Hosp., Memphis 15, Tenn. *Chief, Lab. Serv.* (4, 1955)

YOUNG, ROBERT J., Ph.D. Procter & Gamble, Res. Div., Miama Valley Lab., Cincinnati 31, Ohio. *Res. Biochemist.* (5, 1958)

YOUNGNER, JULIUS STUART, Sc.D. U. of Pittsburgh Sch. of Med., Dept. of Microbiol., Pittsburgh, Pa. *Assoc. Prof.* (6, 1950)

YU, TSAI-FAN, M.D. Mt. Sinai Hosp., New York City 29. *Res. Assoc. in Med.; Asst. Prof. in Med., Columbia U.* (1, 1958; 3, 1958)

YUILE, CHARLES L., M.D., C.M. U. of California Sch. of Med., Los Angeles 24. *Prof. of Pathol.* (4, 1941)

ZABIN, IRVING, Ph.D. U. of California Sch. of Med., Dept. of Physiol. Chem., Los Angeles 24. *Assoc. Prof.* (2, 1953)

ZAFFARONI, ALEJANDRO, Ph.D. P.O. Box 2679, Mexico, D.F. *Exec. Vice-Pres., Syntex, S. A.* (2, 1954)

ZAMCHECK, NORMAN, M.D. Boston City Hosp., Mallory Inst. of Pathol., Boston, Mass. *Res. Physician, G. I. Res. Lab.* (4, 1954; 5, 1959)

ZAMECNIK, PAUL, M.D. Massachusetts Gen. Hosp., Boston 14, Mass. *Prof. of Med., Harvard U.* (2, 1950)

ZAMENHOF, STEPHEN, Ph.D. Columbia U., Coll. of P. & S., Dept. of Biochem., New York City 32. *Assoc. Prof.* (2, 1951)

ZAPATA-ORTIZ, VICENTE, M.D., D.M. Univ. de San Marcos, Fac. of Med., Apartado 2694, Lima, Peru. *Prof. of Pharmacol.* (3, 1951)

ZAPP, JOHN A., JR., Ph.D. Haskell Lab., E. I. duPont de Nemours & Co., Newark, Del. *Dir.* (1, 1950; 3, 1959)

ZARROW, M. X., Ph.D. Purdue U., Dept. of Biol. Sci., Lafayette, Ind. *Prof. of Zool.* (1, 1949)

ZAUDER, HOWARD L., M.D., Ph.D. Albert Einstein Coll. of Med., New York City 61. *Asst. Prof. of Anesthesiol.* (3, 1955)

ZBARSKY, S. H., Ph.D. U. of British Columbia, Fac. of Med., Dept. of Biochem., Vancouver 8, Canada. *Assoc. Prof.* (2, 1959)

ZECHMEISTER, L., Dr. Ing. California Inst. of Tech., Pasadena. *Prof. of Organic Chem., (Retired).* (2, 1941)

ZECKWER, ISOLDE T., M.D. U. of Pennsylvania Sch. of Med., Philadelphia 4. *Emer. Prof. of Pathol.* (1R, 1934; 4R, 1927)

ZEIDMAN, IRVING, M.D. U. of Pennsylvania Sch. of Med., Dept. of Pathol., Philadelphia 4. *Assoc. Prof.* (4, 1946)

ZELDIS, LOUIS J., M.D. U. of California Med. Ctr., Dept. of Pathol., Los Angeles 24. *Prof.* (4, 1945)

ZELITCH, ISRAEL, Ph.D. Connecticut Agric. Expt. Sta., P.O. Box 1106, New Haven 4. *Assoc. Biochemist.* (2, 1954)

ZELLER, E. ALBERT, M.D., Ph.D. Northwestern U. Med. Sch., Chicago 11. *Prof. of Biochem.* (2, 1951)

ZICHIS, JOSEPH, Ph.D. Markham Labs., 9246 S. Vincennes Ave., Chicago 20, Ill. *Dir.* (6, 1951)

ZIEGLER, DANIEL M., Ph.D. U. of Wisconsin Inst. for Enzyme Research, Madison 6. *Sr. Postdoctoral Fellow.* (2, 1959)

ZIERLER, KENNETH L., M.D. Johns Hopkins Hosp., Baltimore 5, Md. *Assoc. Prof. in Med., Johns Hopkins U.* (1, 1951)

ZILL, LEONARD P., Ph.D. Research Inst. for Advanced Studies, Inc., Baltimore 12, Md. *Sr. Biochemist.* (2, 1957)

ZILLIKEN, FRIEDRICH, Ph.D. U. of Pennsylvania Sch. of Med., Philadelphia 4. *Asst. Prof. of Biochem.* (2, 1957)

ZILVERSMIT, D. B., Ph.D. U. of Tennessee, Dept. of Physiol., Memphis 3. *Prof.* (1, 1949)

ZIMMERMAN, HARRY M., M.D. Montefiore Hosp., New York City 67. *Chief, Lab. Div.; Prof. of Pathol., Columbia U.* (4, 1933)

ZIMMERMANN, BERNARD, M.D., Ph.D. U. of Minnesota Med. Sch., Minneapolis 14. *Assoc. Prof. of Surgery.* (4, 1958)

ZIPKIN, ISADORE, Ph.D. Natl. Inst. of Dental Res., Lab. of Biol. Chem., NIH, Bethesda 14, Md. *Asst. Chief.* (5, 1958)

ZIRKLE, RAYMOND E., Ph.D. U. of Chicago, Committee on Biophysics, Chicago 37, Ill. *Prof. of Radiobiol.* (1, 1948)

ZITTLE, CHARLES A., Ph.D. USDA, Eastern Regional Research Lab., Philadelphia 18, Pa. *Sec. Chief, Protein Div.* (2, 1946)

ZUBROD, CHARLES G., M.D. Natl. Cancer Inst., NIH, Bethesda 14, Md. (3, 1952)

ZUCKER, MARJORIE B., Ph.D. Sloan-Kettering Inst. for Cancer Research, New York City 21. *Assoc.* (1, 1947)

ZWEIFACH, BENJAMIN W., Ph.D. New York U. Coll. of Med., Dept. of Pathol., New York City 16. (1, 1945)

ZWEMER, RAYMUND L., Ph.D. Dept. of State, Washington 25, D.C. *Asst. Science Adviser.* (1, 1930)

SUMMARY OF MEMBERSHIP[1]

The American Physiological Society	1,799
American Society of Biological Chemists	1,605
American Society for Pharmacology and Experimental Therapeutics	864
The American Society for Experimental Pathology	608
American Institute of Nutrition	579
The American Association of Immunologists	581
Total Membership	6,036

[1] *As of July 1, 1959.*

DECEASED MEMBERS

ADOLPH, WILLIAM H. (2R, 1946; 5, 1934), September 24, 1958
ARONSON, JOSEPH D. (4, 1927; 6, 1925), October 17, 1958
BETHELL, FRANK H. (4, 1936), April 21, 1959
BRAUN-MENENDEZ, EDUARDO (1H, 1959). Posthumously elected, Spring 1959
CHATFIELD, PAUL O. (1, 1950), November 18, 1958
CLOWES, GEORGE H. A. (2R, 1914; 6R, 1919), August 25, 1958
CSONKA, F. A. (2, 1924), August 18, 1958
DOOLEY, MARION S. (3R, 1923), December 13, 1958
DRAPER, WM. B. (3, 1938), April 15, 1958
DuBOIS, EUGENE F. (1R, 1913; 3R, 1921; 5R, 1933), February 12, 1959
FAMULENER, LEMUEL W. (6R, 1920), July 12, 1958
FINNEGAN, J.K. (3, 1947), September 13, 1958
FOOT, NATHAN C. (4R, 1924), September 4, 1958
GREENSTEIN, JESSE P. (2, 1935), February 12, 1959
HAGGARD, HOWARD W. (1R, 1919; 2, 1920), April 22, 1959
HEYROTH, FRANCIS F. (2R, 1935), August 18, 1958
KIRSCHBAUM, ARTHUR (4, 1948), May, 1958
LASHLEY, K. S. (1R, 1923), August 7, 1958
L'ESPERANCE, ELISE S. (6, 1920), January 21, 1959
NELSON, E. M. (2, 1927; 5, 1933), December 24, 1958
ORBELI, L. A. (1H, 1946), December, 1958
PRATT, F. H. (1R, 1919), Spring, 1958
SACHS, ERNEST (1R, 1910), December 2, 1958
SANFORD, ARTHUR H. (6R, 1920), June 6, 1959
SCHMIDT, EMIL G. (2, 1951), September 25, 1958
SIEBERT, WALTER J. (4, 1932), March, 1959
STOLAND, O. O. (1R, 1913), February 24, 1959
WATSON, JOHN B. (1, 1907), September 25, 1958

GEOGRAPHICAL LIST OF MEMBERS

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ALABAMA

ATHENS
E. F. Johnston, 1

AUBURN
W. D. Salmon, 2, 5

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S. B. Barker, 1, 3
J. M. Bruhn, 1
E. B. Carmichael, 1, 2
A. E. Casey, 4
L. C. Clark, Jr., 1
J. D. Emerson, 1
E. E. Evans, 6
K. Hare, 1
S. P. Kent, 4
C. D. Kochakian, 1, 2
L. L. Langley, 1
J. F. A. McManus, 4
R. W. Mowry, 4
W. W. Pigman, 2
T. W. Robinson, 1
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H. E. Skipper, 2
T. D. Spies, 3, 4, 5
R. S. Teague, 3
W. J. Wingo, 2

FAIRHOPE
R. A. Lambert, 4

FOLEY
J. C. Rice, 3R

MONTGOMERY
M. Schaeffer, 6
C. C. Shepard, 6

TUSCALOOSA
C. Brooks, 1R, 3

UNIVERSITY
B. L. Davey, 5
F. L. Meyer, 5
E. N. Todhunter, 5

ALASKA

L. Irving, 1
W. O. Maddock, 1
E. M. Scott, 2

ARIZONA

GLENDALE
B. W. Heywang, 5

PHOENIX
M. J. Blish, 2R
C. L. Hess, 1R
F. D. Mann, 1, 4

TUCSON
L. E. Booher, 2, 5
K. K. Jones, 1R
A. R. Kemmerer, 5
S. B. Raska, 1
K. Wertman, 6

ARKANSAS

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M. C. Kik, 5
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J. Sacks, 1, 3
E. L. Stephenson, 5

LITTLE ROCK
S. A. Corson, 1
J. S. Dinning, 2, 5
C. D. Douglass, 5
C. E. Duffy, 6
T. D. Norman, 4
T. C. Panos, 4, 5
H. G. Schlumberger, 4
L. D. Seager, 3
J. E. Whitney, 1
R. L. Wixom, 5

MENA
H. D. Lightbody, 2

CALIFORNIA

ALBANY
G. Alderton, 2
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H. Lineweaver, 2
F. A. Loewus, 2
H. P. Lundgren, 2
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S. Schwimmer, 2
R. H. Wilson, 3

ALHAMBRA
W. M. Cahill, 2

BERKELEY
S. Abraham, 2
D. I. Arnon, 2
C. E. Ballou, 2
A. K. Balls, 2
H. A. Barker, 2
R. C. Batterman, 3
E. L. Bennett, 2
L. J. Bogert, 2R
H. C. Bradley, 1R, 2R
M. M. Brooks, 1
M. Calvin, 2
F. H. Carpenter, 2
I. L. Chaikoff, 1
R. D. Cole, 2
S. F. Cook, 1
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C. C. Delwiche, 2
E. L. Dobson, 1
M. Doudoroff, 2
S. S. Elberg, 6
H. M. Evans, 1R
D. S. Feingold, 2
H. O. L. Fischer, 2R
J. Fong, 6
H. L. Fraenkel-Conrat, 2
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D. P. Hackett, 2
E. L. Hansen, 3
W. Z. Hassid, 2
M. R. Heinrich, 2
J. Hidalgo, 3
G. J. Hildebrand, 3
M. Ikawa, 2
H. B. Jones, 1
M. A. Joslyn, 2
L. S. Kelly, 1
P. L. Kirk, 2
C. A. Knight, 2
A. P. Krueger, 4, 6
E. H. Lennette, 4, 6
S. Lepkovsky, 2, 5
C. H. Li, 2
R. L. Lyman, 5
G. Mackinney, 2
M. E. McClain, 6
A. D. McLaren, 2
A. F. Morgan, 2R, 5
J. B. Neilands, 2
M. M. Nelson, 5
E. F. Neufeld, 2
J. H. Northrop, 2
R. Okey, 2, 5
H. S. Olcott, 2, 5
N. Pace, 1
A. B. Pardee, 2
J. C. Rabinowitz, 2
L. L. Rosenberg, 2
G. Rosenfeld, 1
H. K. Schachman, 2
V. P. Seeberg, 3
M. E. Simpson, 1
E. E. Snell, 2, 5
R. Y. Stanier, 2
W. M. Stanley, 2, 6
E. S. Sundstroem, 2R
A. Taurog, 2
P. S. Timiras, 1, 3
W. E. Ward, 6
H. Werbin, 2
M. A. Williams, 5

BEVERLY HILLS
C. M. Agress, 1
H. R. Bierman, 3
R. W. Lippman, 1
J. Marmorston, 6
H. H. Mitchell, 6
M. Prinzmetal, 3
R. E. Weston, 1

BIG PINE
R. J. Hock, 1

BLUE LAKE
W. J. Kerr, 3R

BUENA PARK
T. H. Jukes, 2, 5
W. L. Williams, 2

BURBANK
P. F. Salisbury, 1

CARMEL
R. A. Kocher, 2R

COLTON
V. C. Bohr, 1

CORONA DEL MAR
T. L. Patterson, 1

COSTA MESA
P. M. Nelson, 5R

CULVER CITY
B. H. Ershoff, 5

DAVIS
A. L. Black, 2
E. E. Conn, 2
D. R. Cordy, 4
J. B. Enright, 6
G. Everson, 5
H. Goss, 2, 5
C. R. Grau, 5
L. S. Hurley, 5
L. L. Ingraham, 2
M. Kleiber, 1, 5
F. H. Kratzer, 5
J. W. Osebold, 5
S. A. Peoples, 3
D. W. Peterson, 5
P. P. T. Sah, 3
C. J. Stormont, 6
P. K. Stumpf, 2
A. L. Tappel, 2

DUARTE
J. T. Holden, 2
R. Kinosita, 4
E. Roberts, 2
G. Rouser, 2
R. S. Schweet, 2
D. G. Simonsen, 2

FULLERTON
M. D. McCarthy, 1

GOLETA
J. E. Cushing, 6

GRANADA HILLS
J. R. Poppen, 1

GRIDLEY
W. S. Lawrence, 3

LA JOLLA
G. R. Bartlett, 2
A. B. Hastings, 1, 2, 5
H. I. Nakada, 2
N. W. Rakestraw, 2
P. F. Scholander, 1
A. N. Wick, 2

LOMA LINDA
C. R. Collier, 1
J. E. Thomas, 1, 3

CALIFORNIA

LONG BEACH
K. Fink, 2

LOS ALTOS
P. M. Dawson, 1R

LOS ANGELES
J. M. Adams, 4
W. R. Adey, 1
F. Aladjem, 6
N. Alexander, 1
R. B. Alfin-Slater, 2, 5
E. R. Arquilla, 4, 6
D. E. Atkinson, 2
P. K. Ayengar, 2
W. H. Bachrach, 1
N. Baker, 2
O. J. Balchum, 1
L. A. Bavetta, 5
L. R. Bennett, 4
D. H. Blankenhorn, 4
T. H. Bullock, 1
M. N. Camien, 2
B. Campbell, 1
M. E. Carsten, 2
L. A. Chambers, 1, 6
W. G. Clark, 1, 3
C. D. Clemente, 1
F. Crescitelli, 1
H. A. Davis, 4
L. E. Detrick, 3
J. B. Dillon, 3
D. R. Drury, 1
M. S. Dunn, 2
E. Eldred, 1
G. A. Emerson, 5
J. O. Erickson, 6
J. Field, II, 1
J. B. Field, 2
R. M. Fi[illegible], 2
N. B. Friedman, 4
E. Geiger, 5
R. George, 3
O. J. Golub, 6
A. S. Gordon, 1
I. Gordon, 6
P. O. Greeley, 1
J. D. Green, 1
W. H. Griffith, 2, 5
M. I. Grossman, 1
T. J. Haley, 3
V. E. Hall, 1
I. Harary, 2
J. E. Hyde, 1
C. Hyman, 1
D. T. Imagawa, 4
T. L. Jahn, 1
D. J. Jenden, 3
B. M. Kagan, 5
J. Katz, 2
C. R. Kleeman, 1
P. Kotin, 4
B. G. Lamson, 4
H. Latta, 4
D. Leigh, 3
R. L. Libby, 6
D. B. Lindsley, 1
C. G. Loosli, 4R, 6
N. S. MacDonald, 2
S. C. Madden, 4
H. W. Magoun, 1
J. V. Maloney, Jr., 1
N. S. R. Maluf, 1
W. Marx, 2
M. H. Maxwell, 1
F. W. McKee, 4
R. W. McKee, 2
J. W. Mehl, 2
W. F. H. M. Mommaerts, 1, 2
L. F. Morehouse, 1
M. Morehouse, 2
H. L. Motley, 1
E. L. Nelson, 4
C. F. Pait, 6
J. W. Palmer, 6
H. E. Pearson, 6
J. G. Pierce, 2
J. J. Quilligan, Jr., 6
I. Rappaport, 6
A. F. Rasmussen, 6
B. O. Raulston, 3R
P. E. Rekers, 4
R. F. Riley, 3
S. Roberts, 1, 2
J. F. Ross, 4
F. E. Russell, 1
P. Saltman, 2
P. R. Saunders, 3
C. H. Sawyer, 1
F. H. Scharles, 5
W. A. Selle, 1
A. L. Sellers, 1
M. W. Seraydarian, 1
D. H. Simmons, 1
R. E. Smith, 1
J. E. Snoke, 2
S. S. Sobin, 1
R. R. Sonnenschein, 1
S. Soskin, 1, 5
M. E. Swendseid, 2
C. M. Szego, 1
D. B. Taylor, 3
C. A. Terzuolo, 1
R. D. Tschirgi, 1
R. C. Ursillo, 3
M. Verzeano, 1
D. W. Visser, 2
R. L. Walford, 4
R. Ward, 6
A. G. Ware, 2
H. E. Weimer, 4
F. W. Weymouth, 1R
J. B. Wolfe, 2
A. Wright, 4
C. L. Yuile, 4
I. Zabin, 2
L. J. Zeldis, 4

LOS GATOS
A. R. Lamb, 2R, 5

MENLO PARK
G. A. Le Page, 2
C. Mitoma, 2
N. P. Plotnikoff, 3

MILL VALLEY
H. B. Friedgood, 1
J. R. Geary, Jr., 4
E. Oppenheimer, 3

MODESTO
H. J. Almquist, 2, 5

MONTEREY
G. H. Marmont, 1

NAPA
G. W. Clark, 2R

NORTHRIDGE
B. B. Brown, 3
G. E. Cronheim, 3
G. L. Maison, 1, 3
L. W. Roth, 1, 3
J. W. Stutzman, 1, 3
A. Surtshin, 1

OAKLAND
J. E. Bacher, 2
A. E. Hansen, 4, 5
L. W. Kinsell, 5
I. McQuarrie, 1, 4, 5R
R. J. Parsons, 4

OLIVE VIEW
M. C. D'Amour, 1

ORANGE
G. F. Warner, 1

ORINDA
R. Hill, 1
J. H. Lawrence, 1

PACIFIC GROVE
A. R. Moore, 1R

PACIFIC PALISADES
J. F. Mead, 2

PALO ALTO
R. L. Baldwin, 2
P. A. Cavelti, 6
A. J. Cox, Jr., 4
Q. Geiman, 4
B. H. J. Hofstee, 2
S. M. Kalman, 3
H. S. Kaplan, 4
W. Manwaring, 4, 6
L. A. Rantz, 3
O. H. Robertson, 4R
D. A. Rytand, 3
A. M. Snell, 4

PASADENA
G. A. Alles, 1, 3
J. Bonner, 2
H. Borsook, 2
D. H. Campbell, 6
W. Drell, 2
J. W. Dubnoff, 2
J. S. Garvey, 6
N. H. Horowitz, 2
G. Keighley, 1
J. B. Loefer, 1
H. K. Mitchell, 2
C. G. Niemann, 2
R. D. Owen, 6
R. W. Porter, 1
L. B. Rockland, 2
K. N. F. Shaw, 2
R. L. Sinsheimer, 2
R. W. Sperry, 1
C. H. Thienes, 3
P. O. P. Ts'o, 2
A. Tyler, 6
A. van Harreveld, 1
C. A. G. Wiersma, 1
L. Zechmeister, 2

REDLANDS
C. Gruber, 1R, 3R

REDWOOD CITY
E. L. Durrum, 2
L. R. Melcher, 6

RICHMOND
J. M. Felts, 1

RIVERSIDE
R. W. Ridley, 3

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J. S. Thatcher, 1

SAN CARLOS
C. Chatfield, 5

SAN DIEGO
H. A. Ball, 4
B. F. Stimmel, 2

SAN FRANCISCO
T. K. Adler, 3
F. W. Allen, 2
E. L. Alpen, 1
H. H. Anderson, 3
J. S. Arnold, 4
A. R. Behnke, 1
L. L. Bennett, 1
G. R. Biskind, 4
A. L. Bloomfield, 3R, 4
W. L. Bostick, 4
R. W. Brauer, 1, 3
E. Brown, 1
K. T. Brown, 1
T. N. Burbridge, 3
S. O. Byers, 1
J. L. Carr, 4
Y. C. Chin, 3
L. J. Cole, 1
J. H. Comroe, Jr., 1, 3
S. C. Cullen, 3
A. K. Davis, 1
F. De Eds, 2, 3
R. L. Driver, 1, 3
E. L. Duggan, 2
I. S. Edelman, 1
J. J. Eiler, 2
H. W. Elliott, 3
C. Entenman, 1
R. M. Featherstone, 3
N. E. Freeman, 1
M. Friedman, 1
W. F. Ganong, 1
D. M. Greenberg, 2
L. D. Greenberg, 2
H. A. Harper, 2
R. J. Havel, 1
C. H. Hine, 3
E. Jawetz, 6
D. C. L. Jones, 1
A. Kaplan, 1
R. H. Kellogg, 1
D. J. Kimeldorf, 1
L. S. Kind, 6
H. I. Kohn, 1
E. Kun, 2, 3
A. E. Lewis, 1
B. Libet, 1
S. Lindsay, 4
M. E. Marsh, 1, 5
S. P. Masouredis, 1, 6
S. R. Mettier, 4
K. F. Meyer, 4R, 6
F. H. Meyers, 3
H. D. Moon, 4
H. W. Newman, 3
E. W. Page, 1
C. F. Piel, 4
H. J. Ralston, 1
W. O. Reinhardt, 1
J. A. Rider, 3
K. Roberts, 1
R. H. Rosenman, 1
M. Rothstein, 2
J. J. Sampson, 1
K. G. Scott, 3
J. W. Severinghaus, 1
O. W. Shadle, 1

CALIFORNIA–CANAL ZONE–COLORADO–CONNECTICUT–DELAWARE

M. S. Silverman, 6
V. C. Sutherland, 3
M. N. Swift, 1
H. Tarver, 2
E. L. Way, 3

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L. J. Milch, 3
J. A. Morris, 6
R. A. Phillips, 1

SAN JOSE
J. H. Sirota, 1

SAN MATEO
P. Ortega, 4

SAN RAFAEL
G. L. Searle, 1

SANTA BARBARA
F. E. Bischoff, 2, 5
E. Gellhorn, 1
A. E. Koehler, 2
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I. Sandiford, 2R, 5R

SANTA MONICA
R. O. Bauer, 3
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J. Tilt, 5R

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J. G. Allen, 1
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P. Berg, 2
Melvin Cohn, 2
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W. C. Cutting, 3
R. H. Dreisbach, 3
G. A. Feigen, 1
C. S. French, 2
F. A. Fuhrman, 1
A. Furst, 3
A. Goldstein, 3
R. Grant, 1
E. K. Killam, 3
K. F. Killam, Jr., 3
H. S. Loring, 2
J. M. Luck, 2
K. H. Pribram, 1
S. Raffel, 6
L. J. Rather, 4
E. Roboz, 2
E. W. Schultz, 4, 6R
C. E. Schwerdt, 2
P. E. Smith, 1R
R. E. Swain, 2R
C. Yanofsky, 2

TWENTY-NINE PALMS
R. R. Mellon, 6R

VAN NUYS
E. M. Gal, 2
J. F. Nyc, 2

WEST LOS ANGELES
A. Hemingway, 1

WHITTIER
H. C. Struck, 1, 3

CANAL ZONE

BALBOA HEIGHTS
A. I. Shelokov, 6

COLORADO

BOULDER
B. M. Tolbert, 2

COLORADO SPRINGS
H. Bourquin, 1
M. N. Huffman, 2

DENVER
A. Abrams, 2
T. H. Allen, 1
B. O. Barnes, 1
M. H. Block, 4
S. C. Bukantz, 6
F. A. Cajori, 2, 5
J. R. Cann, 6
J. L. Chapin, 1
H. J. Corper, 2R
F. E. D'Amour, 1
G. F. Filley, 1
T. E. Friedemann, 2, 5
W. R. Frisell, 2
J. W. Gersten, 1
R. J. Glaser, 4
R. M. Hill, 2
J. H. Holmes, 1
S. Katsh, 1
G. K. Lewis, 5
R. C. Lewis, 2R, 5R
M. H. Loveless, 6
C. A. Maaske, 1
C. G. Mackenzie, 2, 5
J. B. Mackenzie, 2
W. P. McCann, 3
J. B. McNaught, 4
G. Meiklejohn, 6
A. V. Montgomery, Jr., 1
R. M. Mulligan, 4
E. B. Pratt, 1
T. T. Puck, 6
E. B. Reeve, 1
D. L. Smith, 3
A. Staub, 2
D. W. Talmage, 6
R. Thompson, 6
R. W. Virtue, 2
K. N. Von Kaulla, 1
R. W. Whitehead, 1, 3

FORT COLLINS
F. X. Gassner, 1

STEAMBOAT SPRINGS
E. S. Fetcher, 1

CONNECTICUT

DANBURY
E. Woll, 4

ELLINGTON
F. H. Bird, 5
A. C. Groschke, 5

GREENWICH
A. A. Albanese, 2
W. F. Loomis, 2

GROTON
W. H. Funderburk, 3

GUILFORD
C. S. Leonard, 3

HAMDEN
W. S. McNutt, 2

HARTFORD
S. J. Martin, 1

JEWETT CITY
P. J. Costa, 3

MADISON
R. H. Green, 6

MANCHESTER
S. E. Pond, 1R

MIDDLETOWN
R. A. Gortner, Jr., 5

NEW BRITAIN
P. D. Rosahn, 4

NEW HAVEN
R. J. Anderson, 2
G. A. Baitsell, 1R
D. H. Barron, 1
W. Bergmann, 2
F. L. Black, 6
C. I. Bliss, 3
E. J. Boell, 1
D. M. Bonner, 2
D. L. Buchanan, 2
E. S. Canellakis, 2
C. E. Carter, 2
H. G. Cassidy, 2
H. T. Clarke, 2
J. R. Cooper, 3
G. R. Cowgill, 1R, 2, 5
J. M. R. Delgado, 1
F. H. Epstein, 1
J. S. Fruton, 2
J. F. Fulton, 1
A. W. Galston, 2
N. J. Giarman, 3
J. P. Green, 3
H. S. N. Greene, 4
F. Guerra, 3
H. A. Harbury, 2
R. G. Harrison, 1R
L. P. Herrington, 1
D. I. Hitchcock, 2
D. Hooker, 1R
D. M. Horstmann, 6
G. D. Hsiung, 6
R. B. Hubbell, 2R, 5R
D. W. King, Jr., 4
D. L. Kline, 1
W. A. Krehl, 2, 5
H. Lamport, 1
A. B. Lerner, 2
C. N. H. Long, 1, 2
E. B. Man, 2
L. H. Nahum, 1
J. S. Nicholas, 1
J. R. Paul, 4R, 6
W. H. Prusoff, 2
F. M. Richards, 2
S. V. Rieder, 2
I. A. Rose, 2
S. Simmonds, 2
M. V. Simpson, 2
S. J. Singer, 2
L. Stark, 1
R. M. Taylor, 6
H. P. Treffers, 6
G. van Wagenen, 1
J. T. Velardo, 1
H. B. Vickery, 2
W. Vishniac, 2
A. D. Welch, 2, 3
G. R. Wyatt, 2
I. Zelitch, 2

NEW LONDON
W. R. Miles, 1
K. E. Schaefer, 1
J. A. Schneider, 1, 3

NEWTOWN
C. V. Bailey, 2R, 5R

NIANTIC
F. L. Dey, 1

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J. H. Heller, 1
M. C. Pease, 6R

ROWAYTON
J. M. Rogoff, 1R, 3R

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L. Atkin, 2, 5
F. J. DiCarlo, 2
M. R. Thompson, 3
B. West, 3

STORRS
E. G. Boettiger, 1
H. D. Eaton, 5
L. D. Matterson, 5
M. Potgieter, 5

TOLLAND
W. E. Anderson, 2R, 5

WATERBURY
S. J. Liao, 6

WEST HARTFORD
O. R. Benham, 6
H. F. Pierce, 1

WINDSOR
H. L. Campbell, 5R

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L. Brouha, 1
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H. R. Rosenberg, 2, 5
M. H. Ross, 5
G. W. H. Schepers, 4
T. R. Wood, 2
J. A. Zapp, Jr., 1, 3

REHOBOTH
D. Marine, 1R, 4R

WILMINGTON
N. W. Flodin, 5
J. P. Frawley, 3
P. B. Hamilton, 2
M. E. Maxfield, 1

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E. A. Werber, 6
G. G. Wiley, 6
A. T. Wilson, 6

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G. E. Schreiner, 1
A. Seidell, 2R
I. Singer, 4
J. E. Smadel, 4, 6
H. F. Smetana, 4
A. E. Smith, 3
E. R. B. Smith, 2
P. K. Smith, 2, 3
R. G. Smith, 3
S. L. Smith, 5R
C. R. Spealman, 1
H. K. Stiebeling, 5
R. E. Stowell, 4
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C. D. Tolle, 5
F. M. Townsend, 4
E. G. Trams, 3
C. R. Treadwell, 2, 5
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L. Voris, 5
B. J. Vos, 3
H. G. Wagner, 1
V. S. Waravdekar, 3
J. R. Weisiger, 2
H. Welch, 6
V. A. Wilkerson, 2
M. C. Winternitz, 4R
M. Womack, 5
J. B. Youmans, 5

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L. S. Dietrich, 2
J. C. Finerty, 1
W. C. Grant, 1
E. Larson, 1, 3
G. T. Lewis, 2
V. H. Moon, 4R
D. M. Morris, 1
W. G. Moss, 1
J. L. Radomski, 3
G. C. Ring, 1
M. M. Sigel, 6
A. K. Weiss, 1

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N. R. Blatherwick, 1R, 2R, 5R

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FORT MYERS
J. A. E. Eyster, 1R, 3R

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M. T. Hanke, 2

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C. F. Crampton, 2
T. J. Cunha, 5
G. K. Davis, 2, 5
L. R. Dragstedt, 1
M. J. Fregly, 1
A. L. Koch, 2
T. H. Maren, 3
S. P. Martin, 6
J. A. Olson, 2
A. B. Otis, 1
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R. L. Shirley, 5
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E. Suter, 6
H. J. Teas, 2
H. D. Wallace, 5
E. R. Woodward, 1
E. B. Wright, 1

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A. G. Foraker, 4

MIAMI
W. A. D. Anderson, 4
D. H. Cook, 2R
D. B. Gordon, 1
D. S. Howell, 1
R. Jones, Jr., 3
C. E. Lane, 1
J. B. Miale, 4
L. G. Rowntree, 1R, 2R, 3R
F. G. K. Savard, 2
K. H. Slotta, 2

MIAMI BEACH
E. L. Alling, 4
N. Glickman, 1
P. B. Hawk, 1, 2
P. Samet, 1
M. L. Weil, 6

MIAMI SHORES
C. A. Cary, 2R

ORLANDO
R. M. Waters, 3R

PENSACOLA
H. W. Ades, 1
R. G. Bartlett, Jr., 1
A. Graybiel, 1

PLANT CITY
O. Riddle, 1R

POMPANO BEACH
W. W. Oliver, 4R

SARASOTA
A. P. Locke, 6R
E. U. Still, 1

ST. PETERSBURG
J. W. Jobling, 4R
A. H. Lawton, 1, 3

TALLAHASSEE
L. M. Beidler, 1
D. M. Easton, 1
S. W. Fox, 2
E. Frieden, 2
H. J. Lipner, 1
M. R. Sandels, 5

WEST PALM BEACH
W. H. Eddy, 2R, 5R

WINTER PARK
G. R. Crisler, 1

GEORGIA

ATHENS
H. M. Edwards, Jr., 5
M. Speirs, 5

ATLANTA
G. Bachmann, 1R
J. A. Bain, 3
F. Binkley, 2
J. H. Birnie, 1
G. A. Brecher, 1
J. H. U. Brown, 1
W. A. Cassel, 6
M. D. Cotten, 3
S. Ellis, 2
F. W. Fales, 2
W. F. Friedewald, 4
J. T. Godwin, 4
S. W. Gray, 1
J. Haldi, 1
M. Hines, 1
E. N. Jenney, 3
E. Juni, 2
F. Lanni, 6
D. S. Martin, 6
S. E. Mayer, 3
J. A. Miller, Jr., 1
N. C. Moran, 3
E. Papageorge, 2
C. C. Pfeiffer, 3
J. M. Reiner, 1
A. P. Richardson, 3
J. A. Russell, 1

J. E. Steinhaus, 3
P. A. Stewart, 1
M. Tager, 6
A. E. Wilhelmi, 2
W. Wynn, 1

AUGUSTA
R. P. Ahlquist, 1, 3
L. Allen, 1
C. H. Baker, 1
A. P. Briggs, 2R
P. Dow, 1
W. K. Hall, 2
W. F. Hamilton, 1
E. C. Jungck, 1
J. W. Remington, 1
S. A. Singal, 2, 5
V. P. Sydenstricker, 5
V. L. Sydow, 3
W. H. Waugh, 1
C.-S. Wright, 6

CHAMBLEE
A. B. Eschenbrenner, 4
I. G. Kagan, 6
S. S. Kalter, 6
W. F. McLimans, 6

COLUMBUS
W. J. Tomlinson, 4

GREENVILLE
G. C. Knowlton, 1

SAVANNAH
W. J. Hayes, Jr., 3
R. F. Witter, 2

HAWAII

HONOLULU
G. O. Burr, 2, 5
W. A. Gortner, 2
C. D. Miller, 5
E. W. Putman, 2

IDAHO

BOISE
E. Woods, 2R, 5R

MOSCOW
T. B. Keith, 5
C. F. Petersen, 5
A. C. Wiese, 5

ILLINOIS

CARBONDALE
H. M. Kaplan, 1
I. L. Shechmeister, 6

CHICAGO
L. G. Abood, 1
W. R. Adams, 1
S. G. A. Alivisatos, 2
S. C. Allen, 1
N. R. Alpert, 1
W. C. Alvarez, 1R, 3R
A. S. Alving, 1
R. H. Andresen, 4
H. S. Anker, 2
J. H. Annegers, 1
A. Arkin, 1R, 3R
J. D. Arnold, 3
L. Arnold, 4
O. T. Bailey, 4
P. Bailey, 1R
H. C. Batson, 6
G. A. Bennett, 4
O. Bergeim, 1R, 2R
F. C. Bing, 2, 5
S. B. Binkley, 2
B. B. Blivaiss, 1
W. Bloom, 4
L. Bogorad, 2
S. L. Bonting, 2
W. B. Bradley, 1
N. R. Brewer, 1
M. C. H. Brookes, 5
P. C. Bucy, 1
A. M. Budy, 3
M. V. Buell, 2
W. Burrows, 6
H. Busch, 2, 3
D. H. Calloway, 5
N. O. Calloway, 3
W. J. R. Camp, 3
P. R. Cannon, 4, 6R
H. R. Catchpole, 1
J. J. Ceithaml, 2
G. W. Changus, 4
K. L. Chow, 1
J. A. Cifonelli, 2
C. Cohn, 1
D. L. Cook, 3
T. B. Coolidge, 2
E. Da Costa, 1, 5
C. W. Darrow, 1
W. Dasler, 5
I. Davidsohn, 4, 6
M. E. Davis, 3
O. F. Davis, 3
F. del Greco, 1
A. J. Derbyshire, 1
R. T. Dillon, 2
A. Dorfman, 2
J. R. Doty, 2
J. Doull, 3
R. M. Dowben, 1
W. L. Doyle, 1
C. A. Dragstedt, 1, 3
V. A. Drill, 1, 3
K. P. Dubois, 3
E. Eagle, 1, 3
D. P. Earle, Jr., 1
L. Eichelberger, 2
E. A. Evans, Jr., 2
E. B. Farnsworth, 3
R. J. Feinberg, 6
S. M. Feinberg, 6
F. W. Fitch, 4
P. P. Foa, 1
L. S. Fosdick, 2
S. Freeman, 1
J. C. Fritz, 5
N. W. Fugo, 3
H. Gaffron, 2
M. Gaudino, 1
I. Gersh, 4
F. A. Gibbs, 1
A. R. Goldfarb, 2
M. S. Goldstein, 1
E. Goldwasser, 2
C. E. Graham, 2, 5
E. R. Grant, 1
J. S. Gray, 1
R. Greenberg, 1
H. Greengard, 1
F. S. Grodins, 1
E. L. Gustus, 2
L. Gyermek, 3
W. C. Halstead, 1
W. E. Hambourger, 3
B. L. K. Hamilton, 2
C. W. Hammond, 4
D. Hamre, 6
M. E. Hanke, 2
P. V. Harper, 1
D. L. Harris, 2
S. C. Harris, 1, 3
R. W. Harrison, 6
T. R. Harwood, 4
G. Hass, 4
O. Hepler, 4
F. Herr, 3
S. W. Hier, 2
W. T. Hill, 4
W. S. Hoffman, 2
D. A. Holaday, 1, 3
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C. B. Huggins, 1
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R. C. Ingraham, 1
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A. C. Ivy, 1, 5
E. Jacobson, 1
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F. L. Jennings, 4
R. B. Jennings, 4
R. K. Jennings, 6
E. V. Jensen, 2
N. R. Joseph, 2
F. T. Jung, 1
C. M. Kagawa, 3
A. G. Karczmar, 3
L. N. Katz, 1
E. P. Kennedy, 2
A. T. Kenyon, 3
A. C. Keyl, 3
E. R. Kirch, 2
N. Kleitman, 1
H. Kluver, 1
V. L. Koenig, 2
A. J. Kosman, 1
L. M. Kozloff, 2
M. E. Krahl, 2, 3
C. A. Krakower, 4
T. H. Kritchevsky, 2
M. M. Kunde, 1R
A. C. Lane, 1
A. Lein, 1
R. Levine, 1
S. A. Levinson, 4
J. H. Lewis, 4
M. V. L'Heureux, 2
M. A. Lipton, 2
H. Lisco, 4
H. E. Longenecker, 2, 5
A. A. Luisada, 1
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H. J. McDonald, 2
F. C. McLean, 1, 2R, 3R
J. B. Melchior, 2
C. P. Miller, 4, 6
G. H. Miller, 3R
M. Morse, 2
J. W. Moulder, 2
H. Necheles, 1
W. D. Neff, 1
L. B. Nice, 1R
J. L. Nickerson, 1
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S. Schiller, 2
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R. J. Winzler, 2
R. W. Wissler, 4, 6
A. V. Wolf, 1
G. P. Youmans, 6
E. A. Zeller, 2

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J. E. Bourque, 1

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J. Blumenstock, 1

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T. B. O'Dell, 3

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C. E. Poling, 5

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M. K. Horwitt, 2, 5

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W. A. Himwich, 1

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D. Nelson, 1

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J. H. Last, 3

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R. Schrek, 4

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M. J. Schiffrin, 1

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B. Mortimer, 1

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R. W. Swick, 2
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E. G. Weir, 1

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H. L. Fevold, 2
R. M. Gesler, 3

MOUNT CARROLL
F. J. Mullin, 1

MOUNT PROSPECT
F. J. Haddy, 1

NORTH CHICAGO
G. M. Everett, 3
W. J. Eversole, 1
D. V. Frost, 2, 5
K. Hwang, 3
H. K. Iwamoto, 3
E. T. Kimura, 3
D. W. MacCorquodale, 2
F. C. McIntire, 2
A. E. Osterberg, 2
H. S. Perdue, 5
R. K. Richards, 1, 3
J. R. Schenck, 2
J. L. Schmidt, 3
J. D. Taylor, 3

OAK PARK
D. I. Abramson, 1
V. Guillemin, Jr., 1

PALOS PARK
E. E. Rice, 5

PEORIA
R. W. Jackson, 2, 5

QUINCY
J. W. Mull, 2

RIVERSIDE
M. A. Hintrichs, 1
E. E. Painter-Marcus, 1

ROCKFORD
W. G. Rohse, 1
D. R. Stewart, 1

SKOKIE
J. de la Huerga, 4
M. B. Gillis, 5
F. J. Saunders, 1

URBANA
D. E. Becker, 5
H. P. Broquist, 2
H. E. Carter, 2, 5
L. E. Chadwick, 1
M. W. Chang, 5
T. K. Cureton, Jr., 1
R. D. De Moss, 2
H. H. Draper, 5
R. M. Forbes, 5
G. S. Fraenkel, 5
W. J. Fry, 1
I. C. Gunsalus, 2
T. S. Hamilton, 2, 5
J. W. Hastings, 2
A. B. Hoerlein, 6
J. O. Holmes, 2, 5
B. C. Johnson, 2, 5
R. E. Johnson, 1, 2, 5
J. Kastelic, 5
F. A. Kummerow, 5
B. L. Larson, 2
H. H. Mitchell, 2R, 5
C. L. Prosser, 1
E. F. Reber, 5
W. C. Rose, 2, 5
W. J. Rutter, 2
F. Sargent, II, 1
H. M. Scott, 5
J. M. Smith, 5
S. Spiegelman, 1
F. R. Steggerda, 1
G. J. Thomas, 1
C. S. Vestling, 2
O. S. Walters, 1
G. Wolf, 2

INDIANA

BLOOMINGTON
H. G. Day, 2, 5
P. M. Harmon, 1
F. Haurowitz, 2, 6
H. R. Mahler, 2
L. S. McClung, 6
P. A. Nicoll, 1
S. Robinson, 1
H. H. Rostorfer, 1
T. J. B. Stier, 1
W. J. van Wagtendonk, 2
G. E. Wertenberger, 1

CEDAR LAKE
C. J. Farmer, 2R

DECATUR
W. W. Cravens, 5

ELKHART
M. N. Carroll, Jr., 3
L. A. Crandall, Jr., 1
A. H. Free, 2, 5
H. G. Glass, 3
R. K. S. Lim, 1, 3

EVANSVILLE
J. J. Barboriak, 5
B. B. Clark, 3
W. M. Cox, Jr., 2, 5
B. K. Hamed, 2, 3
F. G. McDonald, 2, 5
G. R. McKinney, 3
H. P. Sarett, 2, 5
A. L. Sheffner, 2
H. E. Stavely, 2
J. H. Weikel, Jr., 3

FRANKLIN
R. H. K. Foster, 3

INDIANAPOLIS
B. E. Abreu, 3
R. C. Anderson, 3
M. H. Aprison, 1
J. Ashmore, 2
P. R. Beamer, 4
O. K. Behrens, 2
D. E. Bowman, 2
W. W. Bromer, 2
G. A. Bunde, 1
K. K. Chen, 1, 3
W. C. Clark, 3
H. A. Dettwiler, 6
E. H. Flynn, 2
R. B. Forney, 3
L. W. Freeman, 1
D. M. Gibson, 2
C. M. Gruber, Jr., 3
R. N. Harger, 2, 3
P. Harris, 3, 4
O. M. Helmer, 2
F. G. Henderson, 3
R. G. Herrmann, 3
J. B. Hickam, 1
F. W. Hughes, 3
H. R. Hulpieu, 3
J. S. Ingraham, 6
K. G. Kohlstaedt, 1
C.-C. Lee, 1, 3
H. M. Lee, 3
T.-M. Lin, 1
J. F. Lyman, 2R, 5R
R. L. Mann, 2
S. Ochs, 1
H. M. Powell, 6
M. A. Root, 3
E. E. Selkurt, 1
R. E. Shipley, 1
E. W. Shrigley, 6
I. H. Slater, 3
W. B. Sutton, 2
E. E. Swanson, 3
S. O. Waife, 5
L. C. Weaver, 3

LAFAYETTE
B. Axelrod, 2
H. Beevers, 2
C. W. Carrick, 5
H. E. Clark, 5
R. C. Corley, 2
J. F. Foster, 2
W. A. Hiestand, 1
M. Laskowski, Jr., 2
E. T. Mertz, 2, 5
T. S. Miya, 3
M. Moskowitz, 6
L. J. Mullins, 1
H. E. Parker, 5
F. W. Quackenbush, 2, 5
R. L. Whistler, 2
M. X. Zarrow, 1

MARION
S. Ansbacher, 2

MICHIGAN CITY
W. H. Olson, 1

MUNCIE
R. W. Christie, 4

NOTRE DAME
A. G. Marshak, 1
T. G. Ward, 6

SHELBYVILLE
V. B. Scott, 1

TERRE HAUTE
C. F. Failey, 2
K. E. Jensen, 6
W. C. Sherman, 5
J. Warren, 6

WEST LAFAYETTE
W. M. Beeson, 5
H. Koffler, 2

IOWA

AMES
L. Amrich, 5
S. Aronoff, 2
W. D. Brewer, 5
W. Burroughs, 5
D. Catron, 5
E. S. Eppright, 5
D. French, 2
E. A. Hewitt, 1
N. L. Jacobson, 5
L. M. Jones, 3

IOWA–KANSAS–KENTUCKY–LOUISIANA–MAINE–MARYLAND

R. M. Melampy, 1
D. E. Metzler, 2
C. E. Roderuck, 5
H. E. Sauberlich, 2, 5
F. G. Smith, 2
P. Swanson, 5
B. H. Thomas, 5
C. H. Werkman, 2

DES MOINES
R. H. Beutner, 1R, 3
H. W. Larson, 2

IOWA CITY
C. P. Berg, 2, 5
J. T. Bradbury, 1
G. W. Brown, 1
H. Bull, 2
J. R. Carter, 4
A. L. Daniels, 2R, 5R
T. C. Evans, 1
G. E. Folk, Jr., 1
J. R. Fouts, 3
R. B. Gibson, 2R
E. G. Gross, 1, 2, 3
N. S. Halmi, 1
H. M. Hines, 1
J. P. Hummel, 2
C. J. Imig, 1
W. R. Ingram, 1
R. G. Janes, 1
W. S. Jeter, 6
R. E. Kallio, 2
G. Kalnitsky, 2
H. H. Keasling, 3
J. P. Long, 3
G. Marsh, 1
A. P. McKee, 6
R. Montgomery, 2
M. A. Ohlson, 5
I. H. Pierce, 3R
C. B. Pittinger, 3
J. R. Porter, 6
J. I. Routh, 2
B. A. Schottelius, 1
F. W. Stamler, 4
G. Stearns, 2, 5R
J. D. Thomson, 1
W. W. Tuttle, 1
E. D. Warner, 4
C. C. Wunder, 1

KANSAS

KANSAS CITY
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J. K. Frenkel, 4
R. E. Green, 3
S. Grisolia, 2
N. M. Hajek-Nichols, 1
T. R. Hamilton, 4
R. M. Isenberger, 3
C. Liu, 6
J. M. Nichols, 4
L. Peters, 3
K. R. Reissmann, 1
E. J. Walaszek, 3
A. A. Werder, 4
W. C. Wescoe, 3

LAWRENCE
H. W. Barrett, 2
A. A. Benedict, 6
C. M. Downs, 6
K. Jochim, 1
C. A. Leone, 6
G. N. Loofbourrow, 1
R. C. Mills, 2
D. J. Mulford, 2
P. Newmark, 2
D. Paretsky, 2
F. E. Samson, Jr., 1
N. P. Sherwood, 6

MANHATTAN
L. Ascham, 5R
R. K. Burkhard, 2
R. E. Clegg, 2
J. S. Hughes, 2, 5R
M. Kramer, 5
D. B. Parrish, 5
M. S. Pittman, 5R

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G. C. Rau, 1

SALINA
C. J. Weber, 2

TOPEKA
C. C. Wang, 2, 5

WICHITA
N. F. Blau, 2
W. D. Graham, 3

WINFIELD
F. R. Miller, 4

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H. F. Jensen, 2
A. D. Keller, 1
W. F. Kocholaty, 2
C. J. Koehn, 5
G. W. Molnar, 1
R. I. H. Wang, 3
U. F. Westphal, 2

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L. L. Boyarsky, 1
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A. J. Eisenman, 2
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H. F. Fraser, 3
H. E. Hill, 3
J. C. Humphries, 6
H. Isbell, 3
W. R. Martin, 3
J. S. McHargue, 2R
M. Scherago, 6
K. M. Stevens, 6
A. Wikler, 3

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W. A. Brodsky, 1
W. F. Cantrell, 3
W. Christopherson, 4
R. D. Dallam, 2
J. P. Holt, 1
K.-C. Huang, 1, 3
P. K. Knoefel, 3
H. Lawson, 1
M. M. Lipton, 6
K. P. McConnell, 2
R. L. McGeachin, 2
J. C. Moore, 1
W. S. Rehm, Jr., 1
A. J. Steigman, 6
J. F. Taylor, 2

S. M. Walker, 1

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BATON ROUGE
S. L. Hansard, 5
W. H. James, 5
L. L. Rusoff, 5
V. R. Williams, 2

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A. M. Altschul, 2
R. Ashman, 1R
L. M. N. Bach, 1
H. Baer, 6
F. G. Brazda, 2
G. J. Buddingh, 4
E. Bueding, 2, 3
G. M. Carrera, 4
M. K. Carter, 3
L. Churney, 1
R. A. Coulson, 2
C. E. Dunlap, 4
E. Farber, 2, 4
J. P. Fox, 6
G. A. Goldsmith, 5
M. H. Hack, 2
J. K. Hampton, Jr., 1
A. S. Harris, 1
W. H. Harris, 4
T. Hernandez, 1
R. L. Holman, 4
P. M. Hyde, 2
H. E. King, 1
T. E. Mansour, 3
H. S. Mayerson, 1
H. C. McGill, Jr., 4
O. N. Miller, 2, 5
R. E. Reeves, 2
H. J. Saz, 2
O. Schales, 2
J. U. Schlegel, 1
F. W. Schueler, 3
A. Segaloff, 4
M. F. Shaffer, 4, 6
E. Shaw, 2
T. C. Sherwood, 1
F. R. Skelton, 4
J. P. Strong, 4
L. A. Toth, 1
W. G. Unglaub, 5
W. B. Wendel, 2
A. G. C. White, 2
C. R. Womack, 4

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BAR HARBOR
J. L. Fuller, 1
A. A. Kandutsch, 2
J. B. Storer, 4
C. Ten Broeck, 4R

CARIBOU
Van B. Philpot, Jr., 4

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ARMY CHEMICAL CENTER
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R. S. Anderson, 1
R. V. Brown, 1, 3
D. J. Cavanaugh, 3
W. H. Chambers, 1, 5
J. A. Clements, 1
F. N. Craig, 1
D. B. Dill, 1, 2
A. J. Dziemian, 1
C. C. Hassett, 1
R. G. Horton, 1
B. J. Jandorf, 2
K. K. Kimura, 3
B. P. McNamara, 3
H. O. Michel, 2
E. F. Murtha, 3
F. W. Oberst, 2, 3
J. F. O'Leary, 3
B. Sacktor, 2
N. K. Schaffer, 2
L. A. Sternberger, 6
W. H. Summerson, 2
C. tum Suden, 1
C. G. Wilber, 1
J. H. Wills, 1, 3

BALTIMORE
M. A. Andersch, 2
R. Andres, 1
E. C. Andrus, 1
A. M. Baetjer, 1
F. B. Bang, 4, 6
P. Bard, 1
F. W. Barnes, Jr., 2
R. F. Beers, Jr., 2
I. L. Bennett, Jr., 6
L. Bernstein, 1
S. P. Bessman, 2
C. E. Bills, 2, 5
K. C. Blanchard, 3
J. J. Blum, 1
D. Bodian, 6
T. Borsos, 6
J. H. Brewer, 6
T. C. Bruice, 2
H. H. Bryant, 3
R. M. Burgison, 3
A. M. Chesney, 4R
F. P. Chinard, 2
B. F. Chow, 2, 5, 6
J. H. Clark, 1R
W. M. Clark, 2R
L. E. Cluff, 6
S. P. Colowick, 2
P. W. Davies, 1
G. de la Haba, 2
F. P. Ferguson, 1
H. I. Firminger, 4
W. M. Firor, 1
W. H. Gantt, 1, 3
L. N. Gay, 6
G. O. Gey, 1
H. H. Gordon, 5
R. G. Grenell, 1
J. H. Hanks, 6
O. G. Harne, 1R
H. C. Harrison, 1
A. McG. Harvey, 1, 3
L. Hellerman, 2
E. D. Hendley, 1
E. J. Herbst, 2
C. M. Herget, 1
R. M. Herriott, 2
E. Howard, 1
J. E. Howard, 1
H. A. Howe, 6
J. M. Hsu, 5
K. Ishizaka, 6
D. P. Jackson, 1
A. T. Jagendorf, 2

MARYLAND

H. M. Kalckar, 2
A. R. Krall, 2
J. G. Krantz, Jr., 3
M. Landowne, 1
R. G. Langdon, 2
M. G. Larrabee, 1
L. Lasagna, 3
A. L. Lehninger, 2, 5
W. E. Love, 1
D. I. Macht, 1R, 3R
J. W. Magladery, 1
E. K. Marshall, Jr., 1R, 2R, 3
J. McE. Marshall, 1
M. M. Mayer, 6
E. W. Maynert, 3
E. B. McCollum, 5
E. V. McCollum, 2R, 5
W. D. McElroy, 2
C. M. McKee, 6
M. Michaelis, 2
G. S. Mirick, 6
V. B. Mountcastle, 1
G. H. Mudge, 1, 3
A. Nason, 2
H. M. Nitowsky, 5
A. G. Osler, 6
R. H. Oster, 1
A. H. Owens, Jr., 3
E. A. Park, 4
G. B. Pinchot, 2
A. D. Pollack, 4
D. F. Proctor, 1
H. J. Rapp, 6
J. F. Reback, 6
O. K. Reiss, 2
A. R. Rich, 4
C. P. Richter, 1
R. L. Riley, 1
B. Roizman, 6
J. E. Rose, 1
M. Rosenfeld, 3
R. S. Ross, 1
G. G. Rudolph, 1
D. R. Sanadi, 2
A. San Pietro, 2
W. W. Scott, 1
R. H. Shepard, 1
N. W. Shock, 1
D. C. Smith, 1
C. D. Snyder, 1R
B. L. Strehler, 2
S. R. Suskind, 6
G. F. Sutherland, 1
S. A. Talbot, 1
R. D. Teasdall, 1
S. S. Tower, 1
E. B. Truitt, Jr., 3
R. R. Wagner, 6
A. E. Walker, 1
M. Walser, 1
K. Wasserman, 1
I. M. Weiner, 3
P. Whittlesey, 3
C. L. Wisseman, Jr., 6
S. Wood, Jr., 4
A. C. Woods, 6R
K. L. Zierler, 1
L. P. Zill, 2

BELTSVILLE

M. Adams, 2
C. A. Denton, 5
L. P. Dryden, 5
N. R. Ellis, 2, 5
R. M. Fraps, 1
A. M. Hartman, 5
R. J. Lillie, 5
A. Marcus, 2
L. A. Moore, 5
M. H. Roepke, 3
J. F. Sykes, 1

BETHESDA

W. J. Adelman, Jr., 1
B. W. Agranoff, 2
R. P. Akers, 1
E. C. Albritton, 1R
P. D. Altland, 1
B. N. Ames, 2
E. P. Anderson, 2
H. B. Andervont, 4
C. B. Anfinsen, Jr., 2
G. G. Ashwell, 2
J. Axelrod, 2, 3
H. Baemstein, 2
C. G. Baker, 2
L. A. Barnes, 6
R. W. Bates, 2
J. H. Baxter, 3
M. Belkin, 3
N. I. Berlin, 1
R. W. Berliner, 1
J. G. Bieri, 5
S. M. Bimbaum, 2
J. E. Birren, 1
S. Black, 2
B. Bloom, 2
B. R. Boone, 1
W. J. Bowen, 1
J. Bozicevich, 6
R. O. Brady, 2
J. H. Bragdon, 4
S. E. Branham, 6R
E. Braunwald, 1
G. Brecher, 4
G. M. Briggs, 5
B. B. Brodie, 2, 3
W. R. Bryan, 1, 4
D. Burk, 2
J. J. Burns, 2, 3, 5
M. S. Burstone, 4
E. R. Buskirk, 1
L. C. Butler, 5
G. L. Cantoni, 2, 3
C. J. Carr, 3
H. W. Chalkley, 1R
S. S. Chernick, 2
J. J. Christian, 4
J. Cochin, 3
R. D. Coghill, 2
K. S. Cole, 1
P. Condliffe, 2
F. S. Daft, 2, 5
R. G. Daggs, 1, 5
A. J. Dalton, 4
J. D. Davidson, 3
D. J. Davis, 6
J. O. Davis, 1
S. Dray, 6
T. B. Dunn, 4
H. M. Dyer, 2, 5
H. Eagle, 2, 3R, 6
W. R. Earle, 4
B. E. Eddy, 6
N. B. Eddy, 3
F. Eisenberg, Jr., 2
F. P. Ellinger, 3
E. W. Emmart, 3
K. M. Endicott, 4
V. J. Evans, 4
E. V. Evarts, 1
J. L. Fahey, 1
M. A. Fink, 6
M. Flavin, 2
J. E. Folk, 2
M. R. S. Fox, 5
K. Frank, 1
J. Freund, 6
W. H. Freygang, Jr., 1
D. L. Fry, 1
M. G. F. Fuortes, 1
C. F. Gell, 1
J. R. Gillette, 2, 3
J. P. Gilmore, 1
V. Ginsburg, 2
J. A. Gladner, 2
L. I. Goldberg, 3
A. Goldin, 1, 3
D. E. Goldman, 1
H. C. Goodman, 1
F. B. Gordon, 4, 6
R. E. Greenfield, 2
P. M. Gullino, 4
K. Habel, 6
R. T. Habermann, 4
S. Hajdu, 1
C. E. Hamilton, 1
S. W. Handford, 1
E. Hardenbergh, 1
W. F. Harrington, 2
E. C. Hartman, 5
F. W. Hartman, 4
V. B. Hartman, 1
J. Z. Hearon, 1
R. W. Hendler, 2
L. A. Heppel, 2
R. Hertz, 1
S. M. Hess, 3
W. E. Heston, 4
B. Highman, 4
J. F. Hoffman, 1
H. E. B. Hopps, 6
G. A. Hottle, 6
E. L. Hove, 5
R. J. Huebner, 6
W. C. Hueper, 4
C. P. Huttrer, 1
H. A. Itano, 2
E. B. Jackson, 6
L. Jacobs, 6
W. B. Jakoby, 2
L. Karel, 3
S. Kaufman, 2
E. O. Keiles, 2, 5
T. J. Kennedy, Jr., 1
J. C. Keresztesy, 2, 5
S. S. Kety, 1, 3
R. K. Kielley, 2
W. W. Kielley, 2
M. W. Kies, 2
L. Kilham, 6
C. Kitzinger, 1
E. D. Korn, 2
K. Kurahashi, 2
B. N. La Du, Jr., 2
M. Landy, 6
G. L. Laqueur, 4
C. D. Larsen, 2
L. W. Law, 4
I. G. Leder, 2
M. O. Lee, 1, 5
E. M. Lerner, II, 4, 6
L. Levenbook, 1
L. Levintow, 2
C.-L. Li, 1
C. P. Li, 6
R. D. Lillie, 4
R. B. Livingston, 1
R. Love, 4
R. C. MacCardle, 4
D. L. MacDonald, 2
F. J. Macri, 3
H. Maling, 3
R. A. Malmgren, 4
L. H. Marshall, 1
M. E. Maver, 2
E. S. Maxwell, 2
F. J. McClure, 5
R. K. McDonald, 1
A. H. Mehler, 2
O. Mickelsen, 2, 5
G. B. Mider, 4
E. Mihalyi, 2
R. C. Millican, 3
D. Minard, 1
H. P. Morris, 2, 5
M. Murayama, 2
R. Murray, 6
E. M. Nadel, 4
M. K. O'Gara, 3
R. A. Olson, 1
J. Orloff, 1
E. A. Peterson, 2
K. A. Piez, 2
M. Pittman, 6
V. E. Price, 2
G. P. Quinn, 3
M. Rabinovitz, 2
A. S. Rabson, 4
D. P. Rall, 3
J. E. Rall, 1
W. Rall, 1
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M. E. Reid, 5
J. Robbins, 1
F. L. Rodkey, 2
S. M. Rosenthal, 3
K. K. Sanford, 4
S. J. Sarnoff, 1
H. A. Saroff, 2
J. P. Saunders, 3
R. E. Scantlebury, 1
A. E. Schaefer, 5
L. S. Schanker, 3
H. W. Scherp, 6
W. C. Schneider, 2
K. Schwarz, 2, 5
R. O. Scow, 1
J. Sendroy, Jr., 1, 2
J. Shack, 2
A. M. Shanes, 1, 3
J. A. Shannon, 1, 3
M. J. Shear, 2, 3
E. Shelton, 4
M. B. Shimkin, 4
P. A. Shore, 3
H. Sidransky, 4
M. Silverman, 2
A. Sjoerdsma, 3
F. Smith, 1
W. W. Smith, 1
H. A. Sober, 2
Leon Sokoloff, 4
Louis Sokoloff, 1
H. Specht, 1
S. S. Spicer, 1
J. D. Spikes, 1
E. R. Stadtman, 2
T. C. Stadtman, 2
M. F. Stanton, 4
S. N. Stein, 1
D. Steinberg, 2
H. G. Steinman, 2
DeW. Stetten, Jr., 2
M. R. Stetten, 2
H. L. Stewart, 4
E. F. Stohlman, 3
F. Stohlman, 4
S. H. Stone, 6
C. W. Tabor, 3
H. Tabor, 2, 3

I. Tasaki, 1
R. E. Taylor, 1
F. Tietze, 2
E. O. Titus, 2, 3
G. M. Tomkins, 2
Y. J. Topper, 2
S. Udenfriend, 2, 3
R. Van Reen, 5
M. Vaughan, 2
W. F. Von Oettingen, 3R
D. M. Watkin, 1, 5
E. C. Weinbach, 2
J. H. Weisburger, 2
E. Weiss, 6
A. Weissbach, 2
G. D. Whedon, 1
F. R. White, 2
J. White, 2
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J. N. Williams, Jr., 2
R. B. Williams, Jr., 4
H. N. Wilson, 2
W. F. Windle, 1
M. Winitz, 2
S. H. Wollman, 1
M. W. Woods, 2
W. G. Workman, 6
B. E. Wright, 2
C. I. Wright, 1, 3
I. Zipkin, 5
C. G. Zubrod, 3
R. L. Zwemer, 1

CAMBRIDGE
C. T. Morgan, 1

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C. Ajmone-Marsan, 1
D. E. Copeland, 1
D. M. Rioch, 1
O. Schreiner, 2R
J. Steinhardt, 2

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O. E. Reynolds, 1

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G. F. Combs, 5
H. W. Schoenborn, 1

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J. B. Bateman, 1
T. O. Berge, 6
L. D. Fothergill, 6
C. A. Gleiser, 4
H. A. Neufeld, 2
E. J. Schantz, 2
L. Spero, 2
C. B. Thome, 2
G. G. Wright, 6
R. H. Yager, 6

FREDERICK
J. D. McCarrell, 1
M. W. Slein, 2

KENSINGTON
H. D. Bruner, 1, 3
H. Edelhoch, 2
E. W. Goodpasture, 4
W. H. Marshall, 1

ROCKVILLE
T. H. Benzinger, 1

SILVER SPRING
H. G. Barott, 5R
E. L. Batchelder, 5
W. S. Gochenour, Jr., 6
B. G. King, 1
H. L. Ley, Jr., 6
A. A. Nelson, 4
F. H. Quimby, 1

TAKOMA PARK
H. Y. C. Wong, 1

TOWSON
P. J. Crittenden, 1, 3
L. S. Kubie, 4

MASSACHUSETTS

AMHERST
V. C. Dewey, 2
G. W. Kidder, 2
H. N. Little, 2
H. S. Mitchell, 5
J. G. Snedecor, 1
A. W. Wertz, 5

ARLINGTON
J. C. R. Licklider, 1

BEDFORD
E. A. Pinson, 1

BOSTON
B. Alexander, 2
F. N. Allan, 4
E. T. Angelakos, 1
J. Aub, 1R, 5R
J. P. Ayer, 4
E. E. Baker, 6
E. G. Ball, 2
A. C. Barger, 1
W. Bauer, 1
W. S. Beck, 2
H. K. Beecher, 1, 3
K. Benirschke, 4
G. P. Berry, 6
R. E. Beyer, 1
W. C. Boyd, 6
M. A. B. Brazier, 1
F. N. Briggs, 3
A. F. Brodie, 2
E. A. Brown, 6
N. L. R. Bucher, 1
J. P. Bunker, 3
B. S. Burke, 5
A. Canzanelli, 1
W. B. Castle, 4
B. Castleman, 4
K. H. Clifton, 4
A. I. Cohen, 4
J. Cohen, 4
A. H. Coons, 6
B. G. Covino, 1
G. J. Dammin, 4
C. S. Davidson, 5
B. D. Davis, 2, 3
P. B. Dews, 3
L. Dexter, 1
L. Dienes, 6
R. P. Durbin, 1
M. D. Eaton, 6
D. Elwyn, 2
J. F. Enders, 6
L. L. Engel, 2
B. E. Etsten, 3
S. Farber, 4
B. G. Ferris, Jr., 1
M. Finland, 6
W. H. Fishman, 2
M. H. Flax, 4
G. E. Foley, 4
W. H. Forbes, 1
A. S. Freedberg, 1
M. V. Freeman-Narrod, 3
D. G. Freiman, 4
E. H. Frieden, 2, 3
M. E. Friedkin, 2
D. G. Friend, 3
S.-C. J. Fu, 2
G. P. Fulton, 1
J. Furth, 4
O. Gates, 4
J. Gergely, 2
S. N. Gershoff, 5
R. P. Geyer, 5
D. Gitlin, 6
W. T. Goodale, 1
L. Gorini, 2
R. O. Greep, 1
J. Gross, 1
R. E. Gross, 4
Z. Hadidian, 1, 3
D. D. Hagerman, 2
A. H. Handler, 4
J. M. Hayman, Jr., 1, 3
F. W. Haynes, 1
A. H. Hegnauer, 1
D. M. Hegsted, 5
E. E. Hellerstein, 4
E. Henneman, 1
A. Hertig, 4
H. H. Hiatt, 2
S. P. Hicks, 4
M. B. Hoagland, 2
F. L. Hoch, 2
D. H. Hubel, 1
W. E. Huckabee, 1
M. J. Hunter, 2
K. J. Isselbacher, 2
O. Jardetzky, 3
R. W. Jeanloz, 2
E.P. Joslin, 5R
M. L. Karnovsky, 2
E. H. Kass, 6
A. D. Kenny, 3
C. J. Kensler, 3
H. B. Kenton, 6
J. H. Kinoshita, 2
W. B. Kinter, 1
E. Knobil, 1
W. E. Knox, 2
C. Kometsky, 3
O. Krayer, 3
S. W. Kuffler, 1
J. P. Kulka, 4
E. M. Landis, 1
A. Leaf, 1
S. Leskowitz, 6
R. R. Levine, 3
T. H. Li, 3
F. J. Lionetti, 2
E. R. Loew, 1, 3
R. B. Loftfield, 2
J. M. Looney, 2
F. C. Lowell, 6
M. Lubin, 3
B. R. Lutz, 1R
R. A. MacDonald, 4
C. L. Maddock, 4
S. Maddock, 4
B. Magasanik, 2
G. Majno, 4
S. Malkiel, 6
G. K. Mallory, 4
E. J. Masoro, 1
J. Mayer, 1, 5
R. A. McFarland, 1
D. G. McKay, 4
J. Mead, 1
H. Meier, 4
W. A. Meissner, 4
A. Meister, 2
J. P. Merrill, 1
J. Metcalfe, 1
K. Moldave, 2
W. H. Morse, 3
H. S. Moyed, 2
P. L. Munson, 2, 3
D. H. Nelson, 1
M. M. Nothman, 3
J. P. O'Hare, 4R
J. L. Oncley, 2
J. C. Opsahl, 2
J. R. Pappenheimer, 1
E. W. Pelikan, 3
O. W. Portman, 5
M. L. Quaife, 2, 5
F. M. Rackemann, 6
E.P. Radford, Jr., 1
D. Rapport, 1
A. S. Relman, 1
A. E. Renold, 1
J. E. Richmond, 2
S. L. Robbins, 4
H. F. Root, 5
A. M. Rudolph, 1
K. Schmid, 2
R. Schmid, 4
G. Schmidt, 2
W. B. Schwartz, 1
J. H. Shaw, 5
L. Shuster, 2
F. M. Sinex, 2
F. F. Snyder, 1
J. C. Snyder, 6
A. K. Solomon, 1
S. C. Sommers, 4
F. J. Stare, 2, 5
C. F. Strittmatter, 2
D. MacN. Surgenor, 2
E. B. Taft, 4
S. J. Thannhauser, 2
G. W. Thorn, 1
E. H. Tompkins, 4
U. G. Trendelenburg, 3
H. C. Trimble, 2, 5
M. F. Trulson, 5
J. L. Tullis, 4
H. E. Umbarger, 2
B. L. Vallee, 2
G. F. Vawter, 4
C. A. Villee, Jr., 2
J. J. Vitale, 5
J. H. Wallace, 6
C. W. Walter, 4
S. Warren, 4
B. K. Watson, 6
N. Weiner, 3
T. H. Weller, 6
S. Wessler, 1
D. B. Wetlaufer, 2
C. W. White, Jr., 3
P. D. White, 3
J. L. Whittenberger, 1
T. H. Wilson, 2
H. H. Wotiz, 2
L. C. Wyman, 1
F. E. Yates, 1
A. G. Young, 3
N. Zamcheck, 4, 5
P. Zamecnik, 2

BRIGHTON
M. Stefanini, 1, 4, 6

MASSACHUSETTS–MICHIGAN

BROOKLINE
A. B. Astwood, 1
J. B. Daniels, 6
J. L. Gamble, 2R, 5R
H. Wu, 2

CAMBRIDGE
P. Bemfeld, 2
K. Bloch, 2
G. M. Brown, 2
J. M. Buchanan, 2
E. S. Castle, 1
P. M. Doty, 2
J. T. Edsall, 2
M. M. Eliot, 5R
C. Floyd, 6
A. Forbes, 1
B. S. Gould, 2
D. R. Griffin, 1
A. Gulick, 1R, 5R
L. P. Hager, 2
R. S. Harris, 5
F. L. Hisaw, 1
F. Homburger, 4
R. H. Hubbard, 2
E. B. Keller, 2
N. I. Krinsky, 2
J. Y. Lettvin, 1
S. E. Luria, 6
C. P. Lyman, 1
J. Marmur, 2
J. W. Mavor, 1R
W. S. McCulloch, 1
G. A. Miller, 1
A. M. Pappenheimer, Jr., 2, 6
A. B. Russfield, 4
F. O. Schmitt, 1
I. W. Sizer, 1, 2
S. S. Stevens, 1
G. Wald, 2
P. D. Wall, 1
J. D. Watson, 2
D. F. Waugh, 1, 2
J. H. Welsh, 1
L. G. Wesson, 2R, 3
F. H. Westheimer, 2
R. Whitney, 1
C. M. Williams, 1

CHESTNUT HILL
B. J. Sullivan, 1

COCHITUATE
M. G. Gray, 3

CONCORD
R. M. Ferry, 2R

DORCHESTER
W. A. Bardawil, 4

FITCHBURG
B. S. Walker, 2

FRAMINGHAM CENTRE
P. F. Iampietro, 1

HADLEY
E. V. Smith, 6

HINGHAM
D. L. Belding, 4

JAMAICA PLAIN
J. Ipsen, Jr., 6

LEXINGTON
C. H. Fiske, 2R
B. H. Waksman, 6

LYNN
S. E. Steiman, 1

MEDFORD
K. D. Roeder, 1
R. Rustigian, 6

MILTON
H. S. Forbes, 1R
G. P. Grabfield, 3R

MONSON
W. Hale, 1R, 3R

NATICK
D. E. Bass, 1
O. A. Bessey, 2, 5
E. M. Follensby, 6
A. F. Henschel, 1
D. H. K. Lee, 1
G. L. Miller, 2
A. H. Woodcock, 1

NEEDHAM
M. F. Crawford, 1

NEWTON
H. L. Higgins, 1R, 5R

NEWTON HIGHLANDS
F. W. Maurer, 1

NEWTON UPPER FALLS
I. A. Macchi, 1

NORTHAMPTON
M. Sampson, 5

NORWOOD
J. K. Palmer, 2

SHREWSBURY
J. R. Bergen, 1
M. C. Chang, 1
R. I. Dorfman, 2
M. Hayano, 2
O. M. Hechter, 1
E. L. Hess, 2
H. Hoagland, 1
Y. Kobayashi, 2
W. P. Koella, 1
G. Pincus, 1
E. B. Romanoff, 1
H. Rosenkrantz, 2
J. R. Smythies, 3
D. Stone, 2
C. Terner, 2

SOUTHBRIDGE
O. W. Richards, 1

SOUTH HADLEY
C. Haywood, 1
J. Muus, 2

SOUTH WEYMOUTH
C. W. Duval, 4R

SPRINGFIELD
P. V. Karpovich, 1

WABAN
R. G. Hoskins, 1R
M. S. Raben, 1

WALPOLE
L. C. Fogg, 4

WALTHAM
L. Grossman, 2
W. P. Jencks, 2
M. E. Jones, 2
M. D. Kamen, 2
N. O. Kaplan, 2
H. P. Klein, 2
L. Levine, 6
J. M. Lowenstein, 2
M. Soodak, 2
H. Van Vunakis, 2

WAVERLEY
J. Folch, 2
A. Pope, 2

WELLESLEY
M. E. Collett, 1R
E. E. Jones, 4
L. P. Wilson, 1

WELLESLEY HILLS
S. B. Andrus, 4

WEST NEWTON
F. H. McCrudden, 2R

WEST ROXBURY
J. N. Shanberge, 4

WESTWOOD
T. M. Carpenter, 1R, 2R, 5R

WILBRAHAM
H. E. Munsell, 5

WILLIAMSTOWN
S. A. Matthews, 1
P. Rieser, 1

WINCHESTER
L. Varga, 2

WOODS HOLE
W. R. Amberson, 1
R. Benesch, 2
R. E. Benesch, 2
R. W. Cowgill, 2
A. C. Redfield, 1R
A. Szent-Györgyi, 2
A. G. Szent-Györgyi, 1, 2

WORCESTER
F. Elmadjian, 1
A. P. Truant, 3

MICHIGAN

ANN ARBOR
W. W. Ackermann, 2, 6
B. L. Baker, 1
J. W. Bean, 1
D. R. Bennett, 3
I. A. Bernstein, 2
W. D. Block, 2
D. F. Bohr, 1
C. R. Brassfield, 1
T. M. Brody, 3
D. E. S. Brown, 1
G. C. Brown, 6
E. J. Cafruny, 3
E. A. Carr, Jr., 3
J. P. Chandler, 2, 5
H. N. Christensen, 2
A. A. Christman, 2
K. W. Cochran, 3, 6
M. J. Coon, 2
F. M. Davenport, 6
H. W. Davenport, 1
V. D. Davenport, 1
E. F. Domino, 3
R. W. Doty, 1
H. C. Eckstein, 2
R. C. Elderfield, 2
T. Francis, Jr., 4, 6
A. B. French, 1
A. J. French, 4
I. B. Fritz, 1
R. W. Gerard, 1
G. R. Greenberg, 2
H. F. Hardman, 3
R. C. Hendrix, 4
A. V. Hennessy, 6
J. F. Hogg, 2
I. M. Hoobler, 2, 5
S. W. Hoobler, 1
V. Iob, 2
A. G. Johnson, 6
M. W. Johnston, 2
R. L. Kahn, 4R, 6
M. Lawrence, 1
L. H. Louis, 2
H. F. Maassab, 6
M. Mason, 2
L. B. Mellett, 3
L. Miller, 2
W. J. Nungester, 6
J. Olds, 1
R. L. Potter, 2
T. R. Riggs, 2, 5
S. Roseman, 2
L. T. Rutledge, 1
M. H. Seevers, 1, 3
B. F. Steele, 5
C. C. Sturgis, 4
H. H. Swain, 3
A. H. Wheeler, 6
W. S. Wilde, 1
L. A. Woods, 3

CARO
V. V. Cole, 3

DEARBORN
C. L. Schneider, 1

DETROIT
M. I. Barnhart, 1
P. D. Bartlett, 2
D. H. Basinski, 2
W. T. Beher, 2
O. Bird, 2
A. C. Bratton, Jr., 3
R. A. Brown, 5
G. Chen, 3
P. R. Dumke, 3
F. G. Evans, 1
C. E. Frohman, 2
O. H. Gaebler, 2
E. D. Gardner, 1
E. B. Gerheim, 1, 6
A. J. Glazko, 1
A. Golden, 4
A. L. Grafflin, 1
S. A. Johnson, 1
C. G. Johnston, 1
E. B. Kearney, 2
V. E. Kinsey, 2
P. A. Kober, 2R
A. C. Kuyper, 2

MICHIGAN–MINNESOTA–MISSISSIPPI–MISSOURI

B. M. Lewis, 1
G. A. Lo Grippo, 4, 6
D. A. McGinty, 1
I. W. McLean, Jr., 6
R. W. Monto, 4
F. A. Morin, 1
J. Nyboer, 1
A. U. Orten, 5
J. M. Orten, 2, 5
B. Pearson, 4
J. J. Pfiffner, 1, 2, 5
J. W. Rebuck, 4
D. J. Sandweiss, 1
W. H. Seegers, 1, 2
M. R. Sikov, 4
T. P. Singer, 2
A. H. Smith, 2R, 5
P. G. Stansly, 2
C. S. Stulberg, 6
A. R. Taylor, 6
T.-t. Tchen, 2
A. J. Vorwald, 4
J. K. Weston, 4
C. V. Winder, 1, 3

EAST LANSING
B. V. Alfredson, 1
R. S. Bandurski, 2
S. H. Bartley, 1
R. U. Byerrum, 2
D. C. Cederquist, 5
W. D. Collings, 1
M. Dye, 2R, 5R
R. J. Evans, 5
J. L. Fairley, Jr., 2
L. C. Ferguson, 6
R. G. Hansen, 2
R. M. Herbst, 2
J. A. Hoefer, 5
C. A. Hoppert, 5
C. F. Huffman, 5
R. W. Luecke, 5
W. N. Mack, 6
J. Meites, 1, 5
T. Porter, 5
E. P. Reineke, 1
H. M. Sell, 2
N. E. Tolbert, 2
C. K. Whitehair, 5
L. F. Wolterink, 1
W. A. Wood, 2

GRAND RAPIDS
C. J. Herrick, 1R
J. D. Mann, 4

GROSSE POINTE
O. M. Gruhzit, 4

GROSSE POINTE FARMS
O. Kamm, 2R

KALAMAZOO
W. B. Bass, 3
G. C. Bond, 6
G. F. Cartland, 2
W. A. Freyburger, Jr., 3
M. E. Greig, 3
R. W. Heinle, 5
M. H. Kuizenga, 2
C. E. Meyer, 2
W. L. Miller, Jr., 3
H. G. Petering, 2
P. H. Seay, 3
M. J. Vander Brook, 3
F. E. Visscher, 1
D. P. Wallach, 3
J. R. Weeks, 3

LANSING
A. K. Boor, 2R
R. Y. Gottshall, 6
C. W. Muehlberger, 3

MIDLAND
M. B. Chenoweth, 3
L. C. Hendershot, 3
D. D. Irish, 3
G. N. Smith, 2

OAK PARK
M. Goodman, 6

MINNESOTA

AUSTIN
E. G. Hill, 5
R. T. Holman, 2, 5
W. O. Lundberg, 2

MINNEAPOLIS
J. T. Anderson, 5
W. D. Armstrong, 1, 2
A. B. Baker, 4
C. P. Barnum, Jr., 2
E. T. Bell, 4
W. M. Benson, 3
R. N. Bieter, 3
P. D. Boyer, 2
E. B. Brown, Jr., 1
C. W. Carr, 2
W. O. Caster, 2
H. M. Cavert, 1
E. M. Cranston, 3
R. LaV. Davis, 4
J. R. Dawson, Jr., 4
G. T. Evans, 1
G. Fahr, 1R, 3R
I. D. Frantz, 2
A. W. Frenkel, 2
D. Glick, 2
R. A. Good, 4, 6
F. Grande, 1, 5
E. Grim, 1
H. R. Gutmann, 2
F. Halberg, 1
F. W. Hoffbauer, 4
J. A. Johnson, 1
H. Jonas, 1
C. Kennedy, 2R, 5R
A. Keys, 1, 2
J. T. King, 1
C. B. Knodt, 5
F. J. Kottke, 1
W. G. Kubicek, 1
H. C. Lichstein, 2
N. Lifson, 1
V. Lorber, 1
R. Lumry, 2
C. Martinez, 1
G. A. Matson, 6
L. O. Pilgeram, 2
E. C. Rosenow, 4R, 6R
W. F. Scherer, 6
O. H. Schmitt, 1
S. Schwartz, 2
E. Simonson, 1
L. Singer, 2
L. I. Smith, 2
W. W. Spink, 6
J. T. Syverton, 4, 6
H. L. Taylor, 1
A. P. Thal, 4
L. Tobian, Jr., 1
J. F. VanPilsum, 2
R. L. Vernier, 4
M. B. Visscher, 1
R. W. Von Korff, 2
O. H. Wangensteen, 1, 4
L. W. Wannamaker, 6
C. J. Watson, 2
D. W. Watson, 6
L. W. Wattenberg, 4
H. S. Wells, 1
F. W. Wittich, 6
H. N. Wright, 3
B. Zimmermann, 4

PAYNESVILLE
E. D. Brown, 1R, 3R

ROCHESTER
A. Albert, 1
S. Amberg, 1R, 2R, 3R
R. C. Bahn, 1
E. J. Baldes, 1
R. G. Bickford, 1
J. L. Bollman, 4
A. L. Brown, Jr., 4
H. B. Burchell, 1
H. R. Butt, 5
C. F. Code, 1, 3
J. E. Edwards, 4
H. E. Essex, 1, 3R
A. Faulconer, Jr., 3
G. A. Fleisher, 2
E. V. Flock, 2
W. S. Fowler, 1
J. H. Grindlay, 1
G. A. Hallenbeck, 1
J. F. Herrick, 1
W. H. Hollinshead, 1
V. Johnson, 1
N. M. Keith, 1, 3R, 4
E. H. Lambert, 1
J. S. Lundy, 3
T. B. Magath, 1
F. T. Maher, 4
F. C. Mann, 1R, 4R
H. L. Mason, 2
D. R. Mathieson, 6
V. R. Mattox, 2
K. N. Ogle, 1
C. A. Owen, Jr., 1, 4
M. H. Power, 2
G. M. Roth, 1
A. H. Sanford, 6R
C. Sheard, 1
J. T. Shepherd, 1
H. J. C. Swan, 1
K. G. Wakim, 1, 3
R. M. Wilder, 1R, 4R, 5R
E. H. Wood, 1, 3

ST. PAUL
D. R. Briggs, 2
W. F. Geddes, 2
R. Jenness, 2
E. L. Johnson, 5
S. Kirkwood, 2
J. M. Leichsenring, 5
I. E. Liener, 2, 5
W. E. Petersen, 1
M. O. Schultze, 2, 5
A. V. Stoesser, 6
W. T. S. Thorp, 4
P. E. Waibel, 5

MISSISSIPPI

JACKSON
J. G. Brunson, 4
A. C. Guyton, 1
J. D. Hardy, 1
W. C. Holland, 3
F. C. McDuffie, 6
C. C. Randall, 4, 6
W. L. Williams, 1, 4

MISSOURI

COLUMBIA
B. Bisbey, 5R
H. E. Dale, 1
J. E. Flynn, 4
C. C. Guthrie, 1R, 3R
P. Hitchcock, 3
A. G. Hogan, 2R, 5
R. L. Jackson, 5
T. D. Luckey, 5
D. T. Mayer, 2
A. W. Merrick, 1
D. K. Meyer, 1
B. L. O'Dell, 2, 5
W. H. Pfander, 5
W. S. Platner, 1
J. E. Randall, 1
B. A. Westfall, 1, 3

FLORISSANT
P. L. Varney, 6

JOPLIN
R. L. Ferguson, 4

KANSAS CITY
B. W. Beadle, 2
D. V. Cohn, 2
L. L. Eisenbrandt, 3
B. K. Forscher, 4
P. Morgan, 6
B. C. Pressman, 2

KIRKSVILLE
J. S. Denslow, 1
F. T. Dun, 1
S. F. Howell, 2
I. M. Korr, 1
P. E. Thomas, 1

ST. LOUIS
E. Adams, 2, 3
W. M. Allen, 1
R. M. Bethke, 2, 5
R. J. Bing, 1
G. H. Bishop, 1
H. T. Blumenthal, 4
V. H. Bonifas, 6
G. O. Broun, 4
D. H. Brown, 2
H. B. Burch, 2, 5
R. M. Burton, 2
M. H. Clare, 1
Mildred Cohn, 2
B. Commoner, 2
C. F. Cori, 2
R. K. Crane, 2
G. L. Curran, 2
H. Davis, 1
E. W. Dempsey, 1
E. A. Doisy, Sr., 2
E. A. Doisy, Jr., 2
G. R. Drysdale, 2

MISSOURI–MONTANA–NEBRASKA–NEW HAMPSHIRE–NEW JERSEY

H. N. Eisen, 6
W. H. Elliott, 2
J. Erlanger, 1R
M. S. Fleisher, 4, 6
H. Gest, 2
A. S. Gilson, Jr., 1
L. Glaser, 2
S. Goldring, 1
H. T. Graham, 1, 3
D. M. Green, 1, 3
C. G. Harford, 6
W. J. Harrington, 4
A. F. Hartmann, 2
W. S. Hartroft, 4
P. Heinbecker, 1
A. B. Hertzman, 1
S.-L. Hsia, 2
F. E. Hunter, Jr., 2, 3
P. A. Katzman, 2
M. Kern, 6
J. E. Kirk, 2
A. Kornberg, 2
G. L. Kreezer, 1
P. E. Lacy, 4
W. M. Landau, 1
S. Lang, 1
L. Loeb, 1R, 4
O. H. Lowry, 2, 3
S. A. Luse, 4
L. J. Machlin, 5
C. V. Moore, 4, 5
C. A. Moyer, 1
X. J. Musacchia, 1
C. H. Neilson, 2
R. M. O'Neal, 4
H. Pinkerton, 4
P. W. Preisler, 2
A. W. Richardson, 1
E. Robins, 2
E. Ronzoni, 2
A. Roos, 1
T. Rosebury, 6
H. L. Rosenthal, 2
R. W. Schlesinger, 6
G. M. Schoepfle, 1
P. A. Shaffer, 2
R. E. Shank, 2, 5
S. Sherry, 1
M. Silberberg, 4
R. Silberberg, 4
W. Sleator, Jr., 1
J. R. Smith, 1
M. Somogyi, 2R
D. R. Strength, 2
J. L. Strominger, 2, 3
S. A. Thayer, 2
D. C. Tosteson, 1
S. F. Velick, 2
N. J. Wade, 1
Z. Wallen-Lawrence, 2
T.-Y. Wang, 2
M. M. Weber, 2
R. Wegria, 1, 3
T. E. Weichselbaum, 2
H. L. White, 1
R. D. Williams, 5

SPRINGFIELD
S. R. Johnson, 5

WEBSTER GROVES
F. E. Franke, 1

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C. M. Eklund, 4
D. B. Lackman, 6
C. L. Larson, 6
S. B. Salvin, 6

MISSOULA
J. J. Munoz, 6

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R. Borchers, 5
R. E. Feeney, 2
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R. B. Johnston, 2
H. M. Linkswiler, 5
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D. M. Pace, 1
L. C. Payne, 1
J. H. Pazur, 2

OMAHA
A. L. Bennett, 1
A. W. Brody, 1
A. L. Dunn, 1
J. Ferguson, 1
J. R. Johnson, 1
J. Kramar, 1
V. E. Levine, 2
A. R. McIntyre, 1, 3
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H. J. Phillips, 1
J. R. Schenken, 4
C. M. Wilhelmj, 1

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CONWAY
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N. F. Colovos, 5
A. E. Teeri, 5
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F. Kreuzer, 1
M. F. Morales, 1, 2
L. Noda, 2
J. S. Robb, 1, 3
L. Smith, 2
S. M. Tenney, 1

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E. S. Robinson, 6

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G. L. Foster, 2R

WINCHESTER
O. W. Barlow, 3

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R. P. Herwick, 3

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D. Melnick, 2, 5

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M. M. Winbury, 3

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S. Margolin, 3

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C. H. Krieger, 5
W. J. Snape, 1
D. Tourtellotte, 5

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G. L. Hobby, 6

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D. F. Opdyke, 1
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J. Reilly, 3
E. H. Reisner, Jr., 5
C. Ressler, 2
P. Reznikoff, 1
C. P. Rhoads, 4
D. W. Richards, Jr., 1
G. W. Richter, 4
M. N. Richter, 4
W. F. Riker, Jr., 3
S. H. Rinzler, 3
J. M. Ritchie, 3
D. Rittenberg, 2
T.M. Rivers, 4, 6
P. W. Robbins, 2
J. Roberts, 3
R. O. Roblin, Jr., 2
M. Rockstein, 1
L. Roizin, 4
R. W. Root, 1
W. S. Root, 1
H. M. Rose, 6
R. S. Rosenfeld, 2
P. Rous, 4
E. A. Rovenstine, 3
A. Sandow, 1
W.H. Sawyer, 1, 3
F. Schaffner, 4
B. Schick, 6
J. Schiller, 1
H. A. Schneider, 5
S. S. Schneierson, 6
M. Schubert, 3
W. J. Schubert, 2
M. Schweizer, 1
D. P. Seecof, 4
B. C. Seegal, 4, 6
D. Seegal, 6
S. Seifter, 2
C. B. Shaffer, 3
D. Sheehan, 1
D. Shemin, 2
G. Y. Shinowara, 2
R. E. Shope, 4
G. Shwartzman, 4, 6
P. Siekevitz, 2
E. J. Simon, 2
H. P. Smith, 1, 4
H. W. Smith, 1, 2
L. W. Smith, 4
M. H. D. Smith, 6
S. C. Smith, 5
S. E. Snyderman, 5
H. H. Sobotka, 2, 5
M. Sonenberg, 2
T. H. Spaet, 1
W. M. Sperry, 2
D. B. Sprinson, 2
E. E. Sproul, 4
J. M. Steele, 1
W. H. Stein, 2
C. A. Stetson, 4, 6
F. W. Stewart, 4
W. B. Stewart, 4
C. C. Stock, 2
G. C. H. Stone, 2
H. J. Strecker, 2
J. Y. Sugg, 6
R. C. Swan, Jr., 1
J. V. Taggart, 1
I. Tamm, 6
S. W. Tanenbaum, 2
E. L. Tatum, 2
C. M. Taylor, 5
R. M. Taylor, 1
A. W. Thomas, 2
L. Thomas, 6
D. D. Thompson, 1
G. J. Thorbecke, 6
W. S. Tillett, 6
H. W. Toolan, 4
W. Trager, 4
F. B. Traub, 6
J. Travell, 3
W. Troll, 2
J. W. Uhr, 6
L. J. Unger, 6
H. B. van Dyke, 1, 3
T. B. Van Itallie, 5
F. S. Vogel, 4
P. Vogel, 6
W. Waelsch, 2
I. H. Wagman, 1
G. E. Wakerlin, 1, 3
W. W. Walcott, 1
S. C. Wang, 1, 3
R. C. Warner, 2
B. Webster, 5
A. J. Weil, 6
V. L. Weimar, 1
M. Weiner, 1
B. Weiss, 2
P. A. Weiss, 1
B. Weissmann, 2
J. T. Weld, 6
G. Werner, 3
L. G. Wesson, Jr., 1
G. W. Wheeler, 6R
A. White, 2, 5
S. L. Wilens, 4
C. A. Williams, Jr., 6
T. L. Willmon, 1
V. J. Wilson, 1
J. Wittenberg, 2
A. Wolf, 4
H. G. Wolff, 1, 3
D. W. Woolley, 2, 3, 5
S. B. Wortis, 1
T.-F. Yu, 1, 3
S. Zamenhof, 2
H. L. Zauder, 3
H. M. Zimmerman, 4
M. B. Zucker, 1
B. W. Zweifach, 1

APO, NEW YORK CITY
R. B. Lindberg, 6
B. H. Schneider, 5

NORWICH
J. A. Buzard, 2
R. J. Main, 1
M. F. Paul, 2
W. T. Rockhold, 3

OAKDALE
L. K. Riggs, 2R

ODESSA
E. M. K. Geiling, 1R, 2R, 3

OSSINING
L. C. Miller, 3

PEARL RIVER
P. H. Bell, 2
H. R. Cox, 6
R.W. Cunningham, 3
I. S. Danielson, 2
E. C. DeRenzo, 2
H. F. Diermeier, 3
W. Hausmann, 2
B. L. Hutchings, 2
J. T. Litchfield, Jr., 3
E. L. Patterson, 2
R. R. Roepke, 3
G. R. Sharpless, 5
E. L. R. Stokstad, 2, 5

PITTSFORD
E. E. Hawley, 5

PORT WASHINGTON
N. Molomut, 6
W. H. Pearlman, 2

POUGHKEEPSIE
R. E. Conklin, 1

QUEENS VILLAGE
F. Cotui, 3

RENSSELAER
A. Arnold, 5
T. G. Brown, Jr., 3
E.W. Dennis, 3, 6
L. Grumbach, 1
J. O. Hoppe, 3
A. M. Lands, 1, 3
J. R. Lewis, 3
F. P. Luduena, 3
E. W. McChesney, 1
M. L. Tainter, 1, 3
R. L. Thompson, 6

RICHMOND HILL
H. Blumberg, 3, 5

ROCHESTER
E. F. Adolph, 1
K. I. Altman, 2
S. R. Ames, 2
W. F. Bale, 1
H. A. Blair, 1
W. R. Bloor, 1R, 2R
E. S. Boyd, 3
G. W. Casarett, 4
J. J. Cohen, 1
A. B. Craig, Jr., 1
V. F. Di Stefano, 3
A. L. Dounce, 2
N. D. Embree, 2
D. W. Fassett, 3
W. O. Fenn, 1
E. L. Gasteiger, Jr., 1
R. Gerschman, 1
E. LeB. Gray, 1
P. L. Harris, 2, 5
F. L. Haven, 2
W. B. Hawkins, 4
E. E. Hays, 2
D. C. Herting, 5
J. R. Hinshaw, 4
H. C. Hodge, 2, 3
J. W. Howland, 1, 4
E. R. M. Kay, 2
J. P. Lambooy, 2
W. D. Lotspeich, 1
G. V. Marinetti, 2
K. E. Mason, 5
E. A. Maynard, 3
W. S. McCann, 2R, 5R
L. L. Miller, 2
H. R. Morgan, 6
M. Morrison, 2
P. E. Morrow, 3
J. J. Morton, 4R
J. Murlin, 1R, 2R, 5R
E. S. Nasset, 1, 5
W. F. Neuman, 2, 3

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W. T. Pommerenke, 1
T. A. Rogers, 1
A. Rothstein, 1, 3
K. Salomon, 2
J. K. Scott, 4
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I. L. Spar, 4
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ROME
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S. A. Berson, 1

ROSLYN HEIGHTS
A. L. Florman, 6
E. Perlman, 6

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F. Klemperer, 2

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M. P. Schulman, 2
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J. Tepperman, 1, 3
R. L. Vick, 3
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I. C. Wells, 2
W. W. Westerfeld, 2
P. N. Witt, 3
V. J. Wulff, 1

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S. Norton, 3
J. C. Seed, 3

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L. V. Hankes, 2
C. H. W. Hirs, 2
W. L. Hughes, 2
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J. R. Klein, 2
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M. E. Koshland, 6
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S. W. Lippincott, 4
M. Maxfield, 1
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J. S. Robertson, 1
C. J. Shellabarger, 4
W. W. Shreeve, 2
R. Steele, 2
R. D. Stoner, 4
D. D. Van Slyke, 2

UTICA
N. S. Olsen, 1, 2

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M. H. Williams, Jr., 1

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D. R. Axelrod, 1
L. C. Chesley, 1

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M. R. Bovarnick, 2

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D. A. Boroff, 6
I. M. Mountain, 6

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G. H. Hitchings, 2
E. B. Sigg, 1
H. H. Tallan, 2
G. Ungar, 1

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E. C. Curnen, 6
F. W. Ellis, 3
J. H. Ferguson, 1
C. W. Gottschalk, 1
J. B. Graham, 4
E. M. Irvin, 2
J. L. Irvin, 2
R. D. Langdell, 4
G. P. Manire, 6
W. S. McClellan, 1
A. T. Miller, Jr., 1
G. D. Penick, 4
J. H. Perlmutt, 1
J. H. Schwab, 6
D. G. Sharp, 6
H. Tauber, 2
W. J. Waddell, 3
L. G. Welt, 1
J. E. Wilson, 2

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F. G. Germuth, 4, 6
A. E. Woodward, 1R

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R. D. Baker, 4
J. W. Beard, 4, 6
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F. Bernheim, 2, 3
C. G. Bly, 4
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E. A. Davidson, 2
W. E. De Turk, 3
G. S. Eadie, 1, 3
F. L. Engel, 1
J. W. Everett, 1
I. Fridovich, 2
K. S. Grimson, 1, 3
F. G. Hall, 1
P. Handler, 2, 5
J. P. Hendrix, 3
W. E. Hull, 1
H. Kamin, 2
W. Kempner, 1
H. Lowenbach, 1
W. S. Lynn, Jr., 2
J. E. Markee, 1
F. D. McCrea, 3
J. R. Overman, 6
B. Schmidt-Nielsen, 1
K. Schmidt-Nielsen, 1
G. W. Schwert, 2
A. G. Smith, 4
D. T. Smith, 5, 6
E. A. Stead, Jr., 1
H. M. Taylor, 4
S. J. Wakil, 2
K. M. Wilbur, 1
J. B. Wyngaarden, 2

FLATROCK
H. Laurens, 1R

GREENSBORO
C. I. Reed, 1R
M. F. Williams, 1

HENDERSONVILLE
R. E. Remington, 2R, 5R

RALEIGH
H. J. Evans, 2
H. W. Garren, 1
C. H. Hill, 5
G. Matrone, 5
G. H. Satterfield, 2, 5
S. B. Tove, 5
S. T. Walton, 6
G. H. Wise, 5

SALISBURY
J. E. Gregory, 6

WINSTON-SALEM
C. Artom, 2
J. R. R. Bobb, 1
A. B. Denison, Jr., 1
H. D. Green, 1, 3
R. A. Groat, 1
J. M. Little, 1, 3
H. C. Pribor, 4
M. P. Spencer, 1
M. A. Swanson, 2
W. A. Wolff, 2

NORTH DAKOTA

FARGO
D. F. Eveleth, 2

GRAND FORKS
W. E. Cornatzer, 2
B. De Boer, 1, 3
H. E. Ederstrom, 1
H. J. Fromm, 2

OHIO

AKRON
L. Catron, 4

ATHENS
F. A. Hellebrandt, 1R

CANTON
F. B. Queen, 4

CHAGRIN FALLS
R. W. Eckstein, 1

CINCINNATI
G. H. Acheson, 3
H. Braunstein, 4
H. Burlington, 1
G. M. Conzelman, Jr., 3
M. L. Cooper, 6
D. I. Crandall, 2
G. Eckstein, 1
M. H. Fischer, 1, 2R
E. C. Foulkes, 2
E. A. Gall, 4
G. M. Guest, 2
L. G. Herrmann, 4
D. E. Holtkamp, 3
D. E. Jackson, 1R, 3R
J. B. Kahn, Jr., 3
R. A. Kehoe, 1
B. H. Landing, 4
M. A. Logan, 2
M. B. Macht, 1
F. H. Mattson, 2, 5
B. F. Miller, 2
Z. B. Miller, 2
C. A. Mills, 1, 2

OHIO–OKLAHOMA–OREGON–PENNSYLVANIA

F. J. Murray, 6
L. J. Pecora, 1
I. Ruchman, 6
A. B. Sabin, 6
L. H. Schmidt, 2, 3
J. Scholler, 3
C. C. Smith, 3
H. E. Stokinger, 3, 6
J. L. Svirbely, 3
S. Tashiro, 1R, 2R
E. F. Van Maanen, 3
C. K. Weichert, 1
H. W. Werner, 3
C. D. West, 1
B. C. Wexler, 4
R. J. Young, 5

CIRCLEVILLE
A. W. Bosworth, 2R, 5R

CLEVELAND
C. S. Beck, 4
R. M. Berne, 1
E. H. Bloch, 6
J. W. Blunt, 4
P. E. Boyle, 4
H. B. Brown, 5
L. L. Campbell, Jr., 2
J. J. Clemmons, 4
C. Cooper, 2
E. W. Davie, 2
F. W. Denny, Jr., 6
J. H. Dingle, 6
R. Dominguez, 1
R. E. Eckel, 1
E. E. Ecker, 4, 6
J. B. Garst, 2
H. S. Ginsberg, 6
H. Goldblatt, 1, 4
D. A. Goldthwait, 2
E. Haas, 2
D. B. Hackel, 1, 4
H. K. Hellerstein, 1
H. Hirschmann, 2
T. Hoshiko, 1
H. A. Hunscher, 5
M. H. Kaplan, 6
N. Kaufman, 4
T. D. Kinney, 4
J. Kleinerman, 4
R. R. Kohn, 4
S. Koletsky, 4
L. O. Krampitz, 2, 6
J. Larner, 2
P. S. Lavik, 2
M. Leon, 6
J. R. Leonards, 2
I. H. Lepow, 4, 6
C. Leuchtenberger, 4
S. Levey, 2, 5
M. N. Levy, 1
L. A. Lewis, 1
G. M. C. Masson, 1
F. R. Mautz, 1
J. W. McCubbin, 1
R. D. Moore, 4
A. R. Moritz, 4
I. H. Page, 1, 2
R. F. Parker, 4, 6
A. M. Potts, 2
C. H. Rammelkamp, 6
O. A. Ross, 4
I. Rothchild, 1
H. Rudney, 2
H. Z. Sable, 2
H. Sachs, 2
W. Sakami, 2
P. R. Salemo, 3
G. Sayers, 1, 3
L. Share, 1
R. A. Shipley, 1
E. A. Smith, 1
T. Sollmann, 1R, 2R, 3
J. Spizizen, 2, 6
A. B. Stavitsky, 6
J. R. Stern, 2
E. W. Sutherland, Jr., 2, 3
H. E. Swim, 2
M. F. Utter, 2
W. M. Wallace, 5
J. T. Wearn, 1
R. J. P. Wedgwood, 6
J. M. Werle, 1
C. J. Wiggers, 1R, 3R
H. G. Wood, 2
G. W. Wright, 1

CLEVELAND HEIGHTS
A. C. Corcoran, 1, 3
W. J. Kolff, 1
F. C. Robbins, 6
N. C. Wetzel, 5

COLUMBUS
C. A. Angerer, 1
J. M. B. Bloodworth, Jr., 4
E. Bozler, 1
J. B. Brown, 2, 5
K. A. Brownell, 1
E. T. Carter, 1
E. A. Culler, 1R
G. M. Curtis, 4R
F. E. Deatherage, 2
C. A. Doan, 4
M. Dodd, 6
L. J. Filer, 5
W. J. Frajola, 2
R. C. Grubbs, 1
F. A. Hartman, 1R
F. A. Hitchcock, 1, 5
R. M. Johnson, 2
M. Koehne, 5R
C. D. Leake, 1, 3
M. A. Lessler, 1
B. H. Marks, 3
J. R. Meyer-Arendt, 4
R. O. Moore, 2
W. G. Myers, 1
J. W. Nelson, 3
E. Ogden, 1
M. B. Patton, 5
H. P. Pieper, 1
L. A. Sapirstein, 1
S. Saslaw, 6
D. G. Scarpelli, 4
R. W. Stacy, 1
T. S. Sutton, 5
J. F. Tomashefski, 1
J. E. Varner, 2
E. von Haam, 4
G. C. Webster, 2
B. K. Wiseman, 4
M. L. Wolfrom, 2

DAYTON
J. F. Hall, Jr., 1
J. W. Heim, 1
R. F. Kline, 1
H. O. Parrack, 1

EUCLID
G. L. Farrell, 1

GALLIPOLIS
E. M. MacKay, 1

NEW CARLISLE
E. P. Hiatt, 1

OXFORD
W. C. McNelly, 1

TOLEDO
E. L. Burns, 4
B. Steinberg, 4, 6

WOOSTER
J. W. Hibbs, 5
W. E. Krauss, 2, 5
A. L. Moxon, 2, 5

YELLOW SPRINGS
M. D. Armstrong, 2
P. W. K. Rothemund, 2
P. Webb, 1

YOUNGSTOWN
A. Goudsmit, 1

OKLAHOMA

ARDMORE
T. A. McCoy, 2

NORMAN
S. H. Wender, 2

OKLAHOMA CITY
R. M. Bird, 1
G. S. Campbell, 1
R. Caputto, 2
M. R. Everett, 2
R. H. Furman, 1
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W. Joel, 4
A. Kurtz, 2
R. W. Payne, 3
J. A. Schilling, 4
F. Sheppard, 2
H. A. Shoemaker, 3
P. W. Smith, 1, 3
A. N. Taylor, 1
R. E. Trucco, 2
S. Wolf, 1

STILLWATER
W. D. Gallup, 2
V. G. Heller, 2R, 5R
L. M. Henderson, 2, 5
R. E. Koeppe, 2
R. MacVicar, 2, 5

OREGON

CORVALLIS
E. C. Bubl, 5
J. S. Butts, 2, 5
V. H. Cheldelin, 2, 5
M. L. Fincke, 5
J. R. Haag, 2, 5
T. E. King, 2
H. M. Krueger, 1, 3
R. W. Newburgh, 2
L. F. Remmert, 2
C. A. Storvick, 5
C. H. Wang, 2
P. H. Weswig, 5
R. Wulzen, 1R

EUGENE
F. J. Reithel, 2
B. T. Scheer, 1
A. L. Soderwall, 1

OSWEGO
A. C. Kirchhof, 3

PORTLAND
G. M. Austin, 1
C. H. Beatty, 1
W. D. Blake, 1
J. M. Brookhart, 1
N. A. David, 3
R. S. Dow, 1
L. H. Elwell, 1
H. F. Haney, 1
I. A. Manville, 1
H. S. Mason, 2
E. L. McCawley, 3
E. L. Oginsky, 2
R. D. Peterson, 2
N. M. Phatak, 3
D. A. Rigas, 2
B. B. Ross, 1
L. E. Thomas, 2
W. R. Todd, 2, 5
A. R. Tunturi, 1
J. T. Van Bruggen, 2
E. S. West, 2

PENNSYLVANIA

BALA-CYNWYD
W. J. Rashkind, 1

BETHLEHEM
J. Brozek, 1, 5

BRADFORD
A. Dury, 1

BRISTOL
C. V. Smythe, 2

BRYN MAWR
E. A. Bliss, 6
A. N. Richards, 1R, 2R, 3R

CHELTENHAM
H. Goldberg, 1

DOYLESTOWN
J. W. Still, 1

GETTYSBURG
J. H. Hewetson, 5

GLENSIDE
D. B. McN. Scott, 2

HAVERFORD
R. E. Forster, II, 1

HAVERTOWN
R. A. McLean, 3

JOHNSVILLE
E. L. Beckman, 1
J. D. Hardy, 1
B. D. Polis, 2
A. M. Stoll, 1

PENNSYLVANIA

LEVITTOWN
J. F. Herndon, 5
F. H. Jacobson, 1

LEWISBURG
R. H. Bowman, 1

MEDIA
L. J. Saul, 1

NEWTOWN SQUARE
M. G. Sevag, 2, 6

NORRISTOWN
J. F. McClendon, 1R, 2R, 5R

PHILADELPHIA
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M. A. Bennett, 2
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W. S. Blakemore, 1
A. Bondi, 6
S. Y. Botelho, 1
P. A. Bott, 1, 2
M. J. Boyd, 2
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H. Brieger, 3
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F. P. Brooks, 1
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B. Calesnick, 3
A. Cantarow, 1, 3
W. W. Chambers, 1
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F. C. Charalampous, 2
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E. R. Clark, 1R
J. K. Clark, 1
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D. R. Coman, 4
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L. Cook, 3
J. M. Coon, 3
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F. Deinhardt, 6
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J. Dempsher, 3
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J. R. Di Palma, 1, 3
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I. N. Dubin, 4
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J. E. Eckenhoff, 1
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W. Ehrich, 4
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J. M. Glassman, 3
D. R. Goddard, 2
J. W. Goddard, 4
K. Goodner, 6
W. G. Gordon, 2
J. S. Gots, 2
W. M. Govier, 3
H. Green, 2
S. M. Greenberg, 5
E. M. Greisheimer, 1
S. Gurin, 2
P. György, 2, 5
J. H. Hafkenschiel, Jr., 1, 3
H. R. Hafkesbring, 1
H. T. Hammel, 1
C. Harris, 4
S. Harris, 6
T. N. Harris, 6
J. A. Harrison, 6
J. D. Hartman, 4
N. Haugaard, 2, 3
F. X. Hausberger, 1
L. V. Heilbrunn, 1
A. E. Heming, 3
W. Henle, 6
J. S. Hepburn, 2R
S. M. Horvath, 1
O. Horwitz, 1
J. Hughes, 1
K. Hummeler, 6
M. H. Jacobs, 1
J. H. Jones, 2, 5
A. Kandel, 3
A. S. Kaplan, 6
F. Karush, 2, 6
L. A. Kazal, 2
J. J. Kocsis, 3
G. B. Koelle, 3
J. A. Kolmer, 6R
S. A. Komarov, 1
H. Koprowski, 6
C. P. Kratz, 3
D. Kritchevsky, 2
E. B. Krumbhaar, 1R, 4R
C. J. Lambertsen, 1, 3
T. F. Lavine, 2
R. W. Lawton, 1
D. H. Lewis, 1
W. H. Lewis, 1R
F. S. Lief, 6
G. N. Ling, 1
I. Live, 6
E. Lodholz, 1R
S. Lorber, 1
F. D. Lukens, 1
M. B. Lurie, 4, 6
C. M. MacLeod, 6
R. W. Manthei, 3
J. Marsh, 2
G. J. Martin, 2
P. A. Mattis, 3
S. McD. McCann, 1
G. P. McCouch, 1
F. H. McCutcheon, 1
M. McCutcheon, 4
T. L. McMeekin, 2
G. Medes, 2
V. Menkin, 1, 4, 6
R. E. Miller, 6
L. C. Mills, Jr., 3
A. G. Moat, 2
H. Montgomery, 1
J. H. Moyer, III, 3
S. Mudd, 1, 4, 6
J. J. Murphy, 4
P. Oesper, 2
M. J. Oesterling, 2
E. A. Ohler, 1
M. J. Oppenheimer, 1
W. M. Parkins, 1
K. E. Paschkis, 1
E. K. Patterson, 2
K. Paucker, 6
S. M. Peacock, Jr., 1
R. Penneys, 1
L. H. Peterson, 1
I. J. Pincus, 1
H. L. Price, 1, 3
J. L. Rabinowitz, 2
H. L. Ratcliffe, 4
I. S. Ravdin, 1, 4, 5
E. A. Reed, 1
S. P. Reimann, 1, 4
J. G. Reinhold, 2
M. Reissig, 6
M. Reynolds, 1
J. E. Rhoads, 1, 5
F. Rieders, 3
C. Riegel, 2
W. K. Riker, 3
H. W. Robinson, 2
K. Rodahl, 1
C. S. Rose, 2, 5
H. Rosen, 3
O. Rosenthal, 2
J. L. d'A. Roth, 1
J. S. Roth, 2
D. O. Rudin, 1
R. J. Rutman, 2
S. C. Samaras, 1
C. F. Schmidt, 1, 3
J. J. Schneider, 2
J. Schultz, 2
D. Scott, Jr., 1
J. C. Scott, 1
J. Seifter, 3
R. W. Sevy, 1, 3
H. Shapiro, 1
H. Shay, 1
W. B. Shelley, 1
G. D. Shockman, 2
H. A. Sloviter, 2
J. C. Small, 4
J. Smolens, 6
S. Sorof, 2
E. H. Spaulding, 6
J. N. Spencer, 3
E. A. Spiegel, 1
M. Spiegel-Adolf, 2
M. A. Spirtes, 3
J. J. Spitzer, 1
J. M. Sprague, 1
G. F. Springer, 6
R. D. Squires, 1
W. C. Stadie, 2R
E. Staple, 2
I. Starr, 1, 3
P. E. Steiner, 4
J. A. Stekol, 2, 5
M. Strassman, 2
F. M. Sturtevant, 3
D. C. H. Sun, 1
F. W. Sunderman, 2
D. H. Tedeschi, 3
R. E. Tedeschi, 3
W. H. Telfer, 6
P.-O. Therman, 1
R. Tislow, 1, 3
L. M. Tocantins, 1
G. Toennies, 2
J. C. Touchstone, 2
R. G. Tucker, 5
L. Tuft, 6
E. J. Van Loon, 2
H. M. Vars, 2, 5
J. M. Waldron, 1
L. Weil, 2
S. Weinhouse, 2
C. Weiss, 4, 6
H. A. Wendel, 3
M. P. Wiedeman, 1
F. J. Wiercinski, 1
D. W. Wilson, 1R, 2
M. G. Wohl, 5
I. T. Zeckwer, 1R, 4R
I. Zeidman, 4
F. Zilliken, 2
C. A. Zittle, 2

PITTSBURGH
R. Abrams, 2
A. E. Axelrod, 2, 5, 6
L. V. Beck, 1, 3
H. S. Belding, 1
R. Bentley, 2
H. Bloch, 6
J. P. Buckley, 3
F. S. Cheever, 6
L. A. Cohen, 1
G. J. Cox, 2, 5
J.M. Craig, 4
L. H. Cretcher, 2R
L. H. Criep, 6
T. S. Danowski, 1
N. C. Davis, 2
F. J. Dixon, Jr., 4, 6
A. Edelmann, 1
E. Ellenbogen, 2
R. S. Farr, 4, 6
E. J. Fedor, 1
J. D. Feldman, 4
M. A. Fischer, 2
B. Fisher, 1
E. R. Fisher, 4
F. F. Foldes, 3
M. Fuld-Conderman, 2
O. Gawron, 2
H. M. Gezon, 6
M. I. Gluckman, 3
R. C. Grauer, 4
P. Gross, 4
W. McD. Hammon, 4, 6
E. R. Hart, 3
K. Hofmann, 2
T. K. Kruse, 1, 3R
W. J. Kuhns, 6
G. R. Lacy, 4R
M. A. Lauffer, Jr., 2
J. Leighton, 4
J. H. Lewis, 1
I. Lieberman, 2
A. S. Marrazzi, 1, 3
P. H. Maurer, 6
R. H. McCoy, 2, 5
W. McElltroy, 2
P. L. McLain, 1, 3
I. R. McManus, 2
I. A. Mirsky, 1
T. J. Moran, 4
C. Moses, 1

PENNSYLVANIA–PUERTO RICO–RHODE ISLAND–SOUTH CAROLINA–SOUTH DAKOTA–TENNESSEE–TEXAS

J. D. Myers, 1
H. Noll, 2
R. E. Olson, 2, 5
H. H. Permar, 4
G. B. Pierce, 4
A. G. Renfrew, 2
C. H. W. Ruhe, 1
J. E. Salk, 6
H. L. Segal, 2
N. H. Sloane, 2
H. F. Smyth, Jr., 3
A. H. Stock, 6
F. A. Taylor, 2
F. I. Tsuji, 2
J. J. Vazquez, 4, 6
W. O. Weigle, 6
W. W. Wells, 2
J. S. Youngner, 6

RADNOR
F. W. Bernhart, 5
O. C. Liu, 6
R. M. Tomarelli, 2, 5
S. S. Walkenstein, 3

STATE COLLEGE
R. A. Dutcher, 2R, 5R
E. B. Forbes, 1R, 5R
E. D. Wilson, 5

SWARTHMORE
S. Kletzien, 5

TELFORD
E. S. Mendelson, 1

UNIVERSITY PARK
A. A. Benson, 2
A. Black, 5
R. V. Boucher, 5
J. W. Bratzler, 5
R. L. Cowan, 5
M. L. Dobbs, 5
K. H. Fisher, 5
N. B. Guerrant, 2, 5
M. F. Mallette, 2
R. C. Miller, 5
R. L. Pike, 5
R. W. Swift, 5

VILLANOVA
E. L. Foltz, 1, 3

WARREN
Z. Stary, 2

WAYNE
W. P. Boger, 3
A. E. Livingston, 1R, 3R

WEST POINT
K. H. Beyer, Jr., 1, 3
D. A. Brodie, 3
J. Charney, 2
E. W. J. DeMaar, 3
R. A. Harte, 5
C. P. Hegarty, 6
M. R. Hilleman, 6
H. M. Peck, 3
C. C. Porter, 2
C. A. Stone, 3
A. A. Tytell, 2, 6
V. G. Vernier, 3
C. A. Winter, 1, 3

WYNNEWOOD
N. H. Grant, 2

YEADON
W. C. Foster, 1

PUERTO RICO

HATO REY
R. M. Reinecke, 1

RIO PIEDRAS
L. J. Roberts, 5

SAN JUAN
C. F. Asenjo, 2, 5
C. B. Casas, 1
L. R. Cerecedo, 2, 5
M. Goettsch, 2, 5
J. Szepsenwol, 1
D. B. Tyler, 1, 3

RHODE ISLAND

JAMESTOWN
S. L. Wright, 2

PROVIDENCE
P. F. Fenton, 1, 5
H. Kabat, 1
E. H. Leduc, 4
C. Pfaffmann, 1
L. A. Riggs, 1
F. G. Sherman, 1
C. A. Stuart, 6
J. W. Wilson, 1, 4

SOUTH CAROLINA

CHARLESTON
T. G. Bernthal, 1
T. B. Calhoon, 1
T. D. Darby, 3
F. W. Kinard, 1
M. H. Knisely, 1
B. Metz, 1
J. A. Richardson, 3
R. P. Walton, 3
E. F. Woods, 3

CLEMSON
E. J. Lease, 5

COLUMBIA
J. D. Reese, 4

NEWBERRY
F. N. Martin, Jr., 3

SOUTH DAKOTA

BROOKINGS
O. G. Bentley, 5
C. W. Carlson, 5
O. E. Olson, 2
C. Schuck, 5

VERMILLION
M. A. Heinrich, Jr., 3
F. E. Kelsey, 3
F. K. O. Kelsey, 3
D. M. MacCanon, 1
W. O. Read, 1

TENNESSEE

CHATTANOOGA
S. H. Auerbach, 4

COOKEVILLE
J. T. Skinner, 2

KNOXVILLE
G. T. Barry, 2
McC. Goodall, 1
F. L. MacLeod, 2, 5
G. MacLeod, 2R, 5R
L. M. Odland, 5
S. Rogers, 4
S. R. Tipton, 1

MEMPHIS
R. H. Alden, 1
G. Barlow, 1
D. A. Brody, 1
S. R. Bruesch, 1
N. R. Di Luzio, 1
A. D. Dulaney, 6R
W. B. Dunham, 6
C. C. Erickson, 4
A. Ganz, 3
O. S. Gibbs, 3
W. M. Hale, 4, 6
M. Klein, 4
K. A. Kuiken, 2
N. D. Lee, 2
H. S. Louckes, 1
G. D. Lumb, 4
D. B. Morrison, 2
T. P. Nash, Jr., 2
R. R. Overman, 1
J. P. Quigley, 1, 3
H. C. Schmeisser, 4
C. W. Sheppard, 1
D. H. Sprunt, 4, 6
G. B. Spurr, 1
R. C. Troop, 3
L. Van Middlesworth, 1
R. P. White, 3
W. L. Williams, 4
J. L. Wood, 2
R. A. Woodbury, 1, 3
J. M. Young, 4
D. B. Zilversmit, 1

MOUNTAIN HOME
W. Fleischmann, 1

NASHVILLE
A. D. Bass, 3
F. R. Blood, 1
E. B. Bridgforth, 5
M. T. Bush, 3
R. J. Cazort, 3
W. J. Cheatham, 4
S. Cohen, 2
J. G. Coniglio, 2
L. W. Cunningham, 2
W. J. Darby, 2, 5
H. Goldie, 6
F. Gollan, 1
C. M. Greer, 3
P. F. Hahn, 1, 4
E. G. High, 5
L. Hurwitz, 3
P. D. Lamson, 1R, 3R
G. V. Mann, 5
W. J. McGanity, 5
G. R. Meneely, 1, 4
H. C. Meng, 1
A. S. Minot, 1
V. A. Najjar, 2
E. V. Newman, 1
C. R. Park, 1, 2
J. H. Park, 2
J. T. Park, 2
W. N. Pearson, 5
R. L. Post, 1
R. W. Quinn, 6
B. H. Robbins, 3
C. S. Robinson, 2R
D. T. Rolfe, 1
J. L. Shapiro, 4
O. Touster, 2
H. D. West, 2
C. W. Woodruff, 5

OAK RIDGE
N. G. Anderson, 1
M. C. Bell, 5
S. F. Carson, 2
W. E. Cohn, 2
C. C. Congdon, 4
D. G. Doherty, 2
M. I. Dolin, 2
N. Gengozian, 6
A. Hollaender, 1
G. C. Kyker, 2
T. Makinodan, 6
F. R. Mraz, 5
G. D. Novelli, 2
T. T. Odell, Jr., 1
L. H. Smith, 1
C. H. Steffee, 4
A. C. Upton, 4
E. Volkin, 2

TEXAS

ABILENE
F. W. Dunn, 2

AUSTIN
F. L. Crane, 2
J. E. Davis, 1, 3
R. E. Eakin, 2
J. W. Foster, 2
J. B. Gilbert, 2
J. M. Ravel, 2
L. J. Reed, 2
A. F. Riggs, 2
W. Shive, 2
C. G. Skinner, 2
H. M. Sweeney, 1R
R. J. Williams, 2
O. Wyss, 2

BROOKS AFB
R. W. Bancroft, 1

COLLEGE STATION
J. R. Couch, 2, 5
T. M. Ferguson, 5
H. O. Kunkel, 2
C. M. Lyman, 2, 5
R. Reiser, 2
L. R. Richardson, 5

CONVERSE
H. G. Clamann, 1

DALLAS
W. R. Beavers, 3
J. G. Bishop, 1
W. P. Blackmore, 3
W. W. Burr, Jr., 2
R. T. Capps, 3

TEXAS–UTAH–VERMONT–VIRGIN ISLANDS–VIRGINIA–WASHINGTON

C. B. Chapman, 1
S. G. Eliasson, 1
A. Goth, 3
A. Grollman, 1, 3
S. Haberman, 6
F. Harrison, 1
R. W. Lackey, 1
M. F. Mason, 2
E. E. Muirhead, 1, 4
J. C. Porter, 1
A. F. Reid, 1
F. T. Rogers, 1R
M. D. Siperstein, 2
M. B. Slomka, 3
V. A. Stembridge, 4
S. E. Sulkin, 6
H. C. Tidwell, 2, 5
J. C. Vanatta, 1
D. S. Wiggans, 2

DENTON
F. I. Scoular, 5

FORT SAM HOUSTON
C. D. Graber, 6

FORT WORTH
H. H. Beard, 2

GALVESTON
C. R. Allen, 1
E. A. Blair, 1
D. B. Calvin, 1, 2
G. A. Emerson, 3
R. L. Gregory, 1
M. M. Guest, 1
C. E. Hall, 1
G. R. Herrmann, 4R
H. C. Hopps, 4, 6
J. B. Nash, 3
W. W. Nowinski, 1
A. A. Ormsby, 2
A. Packchanian, 6
M. Pollard, 4
C. M. Pomeraz, 1
E. L. Porter, 1
E. J. Poth, 1
R. H. Rigdon, 4
A. Ruskin, 1
H. G. Swann, 1
J. V. Warren, 1
H. F. Wiese, 5

HOUSTON
E. C. Alvord, Jr., 4
J. Awapara, 2
E. Beerstecher, Jr., 2
K. L. Burdon, 6
V. M. Doctor, 2
R. Edelberg, 1
J. R. Elliott, 1
C. Fortier, 1
J. A. Greene, 1
T. H. Greiner, 3
A. C. Griffin, 2
R. Guillemin, 1
B. Halpert, 4
C. A. Handley, 3
G. M. Higgins, 5R
H. E. Hoff, 1
R. A. Huggins, 1, 3
R. B. Hurlbert, 2
G. L. Jordan, Jr., 4
D. Karp, 3
A. S. Keats, 3
P. Kellaway, 1
S. Kit, 2
W. A. Krivoy, 3
B. M. Levy, 4
E. J. Mason, 4
J. L. Melnick, 6
W. O. Russell, 4
R. A. Seibert, 3
E. L. Smith, 1
R. V. Talmage, 1
J. J. Trentin, 4
J. B. Walker, 2

HUNT
A. E. Meyer, 1R

RANDOLPH AFB
O. O. Benson, Jr., 1
R. T. Clark, Jr., 1
H. B. Gerstner, 1
H. Strughold, 1
P. C. Tang, 1

SAN ANTONIO
H. F. Adler, 1
H. J. Schattenberg, 4
R. D. Templeton, 1
N. T. Werthessen, 1
H. S. Wigodsky, 1

TEMPLE
N. C. Hightower, Jr., 1

UTAH

LOGAN
J. O. Anderson, 5
C. Biddulph, 1
D. A. Greenwood, 3
L. E. Harris, 5

OGDEN
W. A. Bennett, 4
S. P. Hayes, 6

PROVO
D. M. Donaldson, 6
C. J. Gubler, 2, 5
L. P. Vernon, 2

SALT LAKE CITY
H. L. Borison, 1, 3
W. H. Carnes, 4
G. E. Cartwright, 5
S. R. Dickman, 2
T. F. Dougherty, 1
C. Edwards, 1
K. B. Eik-Nes, 1
D. W. Esplin, 3
C. Fenning, 1
E. G. Fingl, 3
L. P. Gebhardt, 6
L. S. Goodman, 1, 3
F. D. Gunn, 4
R. B. Harvey, 1
S. C. Harvey, 3
H. Hecht, 1
R. L. Hill, 2
C. C. Hunt, 1
L. W. Jarcho, 1
R. S. Jones, 4
J. R. Kimmel, 2
W. S. Loewe, 3
S. Marcus, 6
A. R. Martin, 1
C. McNeil, 6
E. R. Perl, 1
G. W. E. Plaut, 2
L. T. Samuels, 2, 3, 5
E. L. Smith, 2
M. L. Sweat, 2
E. A. Swinyard, 3
J. L. Van Lancker, 4
H. R. Warner, 1
N. Weissman, 2
W. G. Wiest, 2
M. M. Wintrobe, 4
D. M. Woodbury, 3
L. A. Woodbury, 1

VERMONT

BRADFORD
S. B. Hooker, 6R

BURLINGTON
A. H. Chambers, 1
R. W. Coon, 4
L. V. Crowley, 4
E. C. Gjessing, 2
C. Hanna, 3
R. Korson, 4
M. P. Lamden, 5
E. Lepeschkin, 1
W. H. Macmillan, 3
H. B. Pierce, 2, 5
W. Raab, 1
W. Van B. Robertson, 2
A. H. Schein, 2
F. J. M. Sichel, 1
D. J. Smith, 1, 3
W. L. Wilson, 1

WEST BRATTLEBORO
H. A. Schroeder, 1

VIRGIN ISLANDS

ST. THOMAS
J. C. Lilly, 1

VIRGINIA

ARLINGTON
W. E. Chamberlain, 1
G. K. Cotts, 3
C. W. Shilling, 1
F. Sperling, 3

BLACKSBURG
C. J. Ackerman, 5
R. W. Engel, 5
W. A. Hardison, 5
K. W. King, 5
R. F. Miller, 5

CHARLOTTESVILLE
W. P. Anslow, Jr., 1, 2
E. D. Brand, 3
S. W. Britton, 1R
A. Burger, 3
J. R. Cash, 4
A. Chanutin, 2
E. L. Corey, 1
A. E. Feller, 6
C. L. Gemmill, 1, 2, 3
D. R. H. Gourley, 1, 3
C. Hoch-Ligeti, 4
V. P. Hollander, 2
C. Hougie, 4
W. S. Jordan, 6
D. W. Kupke, 2
S. Ludewig, 2
R. T. Major, 2
R. W. McGilvery, 2
Q. N. Myrvik, 6
G. C. Pitts, 1

FALLS CHURCH
I. Cornman, 1
L. W. Hazleton, 3

HERNDON
G. Woodard, 3

LORTON
W. M. Ashby, 6

NORFOLK
E. H. Lanphier, 1

PEDLAR MILLS
E. R. Long, 4R

RICHMOND
L. D. F. Abbott, Jr., 2
F. L. Apperly, 4
R. S. Cunningham, 1R
L. E. Edwards, 1
R. H. Egdahl, 1, 4
E. Fischer, 1
J. C. Forbes, 2
H. B. Haag, 3
H. Hoch, 2
E. C. Hoff, 1
E. G. Huf, 1
D. M. Hume, 4
E. L. Jackson, 3
P. S. Larson, 1, 3
G. Margolis, 4
H. McKennis, Jr., 2, 3
L. A. Mounter, 2
J. L. Patterson, Jr., 1
R. W. Ramsey, 1
R. B. Smith, Jr., 3
J. H. Weatherby, 3

STANARDSVILLE
H. Silvette, 1, 3

WASHINGTON

FORT STEILACOOM
M. A. Kennard, 1
F. W. Maire, 1

PULLMAN
D. S. Farner, 1
J. R. Gorham, 4, 6
L. S. Jensen, 5
L. L. Madsen, 5
J. McGinnis, 5
C. M. Stevens, 2

SEATTLE
E. P. Benditt, 4
H. S. Bennett, 1
A. Bodansky, 2R
E. A. Boyden, 1
K. Buettner, 1
L. D. Carlson, 1
E. D. Clark, 2R
J. M. Dille, 3
C. A. Evans, 6
N. B. Everett, 1
G. Falk, 1, 3
D. D. Feller, 1

WASHINGTON–WEST VIRGINIA–WISCONSIN–WYOMING–CANADA

C. A. Finch, 1
E. H. Fischer, 2
J. D. Fulton, 6
B. W. Gabrio, 2
P. D. Goldsworthy, 2
M. P. Gordon, 2
D. J. Hanahan, 2
J. P. Hannon, 1
H. N. Harkins, 1
C. G. Heller, 1
A. Horita, 3
F. M. Huennekens, 2
P. J. Keller, 2
E. G. Krebs, 2
R. F. Labbe, 2
T. A. Loomis, 3
B. Mackler, 2
D. F. Magee, 1, 3
A. W. Martin, Jr., 1
H. C. Mason, 6
J. C. Mathies, 2
L. E. Morris, 3
H. Neurath, 2, 6
H. D. Patton, 1
R. T. Prehn, 4
R. E. Priest, 4
J. I. Rowntree, 5
T. C. Ruch, 1
R. F. Rushmer, 1
A. M. Scher, 1
A. L. Towe, 1
B. M. Wagner, 4
C. P. Wangeman, 3
A. A. Ward, Jr., 1
R. S. Weiser, 6
T. C. West, 3
H. Wheelon, 1
H. R. Whiteley, 2
P. E. Wilcox, 2
R. H. Williams, 4
J. W. Woodbury, 1
A. C. Young, 1

UNDERWOOD
J. E. Halver, 5

WEST VIRGINIA

MARTINSBURG
L. Swell, 2, 5

MORGANTOWN
A. C. Higginbotham, 1
R. F. Krause, 2
D. W. Northup, 1
H. Patrick, 5
K. E. Penrod, 1
L. H. Saxe, Jr., 3
D. C. Shelton, 5
J. C. Stickney, 1
E. J. Van Liere, 1
D. T. Watts, 3

WISCONSIN

DE FOREST
R. C. Herrin, 1

MADISON
K. Akert, 1
R. A. Alberty, 2
L. Anderson, 2
D. M. Angevine, 4
C. A. Baumann, 2, 5
H. Beinert, 2
R. M. Benjamin, 1
D. T. Berman, 6
H. R. Bird, 5
R. M. Bock, 2
H. D. Bouman, 1
R. H. Burris, 2
P. F. Clark, 6R
P. P. Cohen, 2
R. D. Coye, 4
C. W. Crumpton, 3
H. F. Deutsch, 2, 6
C. A. Elvehjem, 2, 5
J. D. Ferry, 2
F. M. Forster, 1
D. S. Goldman, 2
D. E. Green, 2
H. O. Halvorson, 2
A. E. Harper, 2, 5
H. A. Hartmann, 4
C. Heidelberger, 2
J. E. Hind, Jr., 1
W. G. Hoekstra, 5
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